

# *Handy Guide for Mechanics*



*They work  
with a  
Smile!*

**SOCKET**

**OPEN END**

**BOX TYPE**

## **BLACKHAWK WRENCHES**

*with the LOCK-ON Feature*

BLACKHAWK MANUFACTURING CO  
"Wrench Headquarters of America"  
MILWAUKEE ▼ ▼ ▼ WISCONSIN



# 15 Years of Service to Mechanics

The Blackhawk Mfg. Company has been serving the needs of automotive mechanics for over fifteen years.

During that time many changes have been made in car construction and design, and wrenches have been required to answer these new problems. Our Engineering Department has kept abreast of these changes, and offers you time-saving tools for efficient repair work.

In the early days solid type wrenches with socket and handle welded together were the tools you used—inefficient, cumbersome, and many sizes of the same style were necessary to do a complete repair job.

Today, Blackhawk offers single set assortments of detachable tools that give you all that are needed to do a first-class repair job. For example, the "Treasure Chest" No. 70RD equips you with seventy tools permitting over 2700 different workable combinations.

And Tomorrow, as well as Today, Blackhawk will continue to give you the best tools for speed, safety, accuracy, and efficiency.

## Two Classes of Socket Wrenches

For the man who makes his living with tools, Blackhawk offers the "Chief" line. They are professional tools—ones you'll be proud to own—made of the finest chrome-vanadium steel, glistening chromium finish, and complete with the famous Blackhawk "Lock-On" feature. (See pages two to twenty-three).

For home mechanics we offer a competitive line—husky, modern, cadmium-plated but without "Lock-On." (See pages twenty-four to twenty-eight).



# BLACKHAWK WRENCHES For Every Car and Job

## Why Mechanics Should Buy Blackhawk Wrenches From Wholesalers

Blackhawk wrenches are on sale only through recognized wholesalers of automotive equipment, parts, or hardware. No mail order houses buy or sell Blackhawk, either under their or any other brand. No cut-price houses deal in this line. Neither do wagon peddlers, alley garages, or gyys.

Blackhawk wrenches can be purchased through thousands of sources—through wholesalers, their branches, and service stocks maintained by their customers. Look for the sign of the Hex.

### *Quick Service:*

The facilities of the automotive jobber guarantees you immediate service on your wrench requirements. No waiting, no delay.

### *Credit:*

"Treasure Chests," and other large set purchases can be made by you through your employer on easy terms because of the credit courtesy the wholesaler will pass on to him. No C.O.D.

### *Constant Contact:*

The jobber's man is your staunch friend. He stays put—comes often—and is reliable. No necessity of making new contacts with shifting direct salesmen.

### *Double Backing:*

Blackhawk is backed by the manufacturer and the jobber too. This double guarantee is your protection for confidence.

### *Discount to Dealers and Mechanics:*

Every distributor will offer recognized dealers and mechanics a liberal discount from list prices as shown.

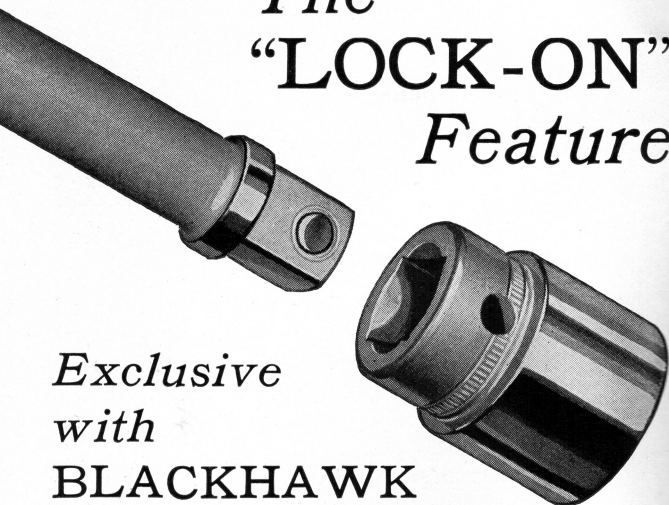


# BLACKHAWK WRENCHES

Chrome Vanadium · Chromium Plated

## The "LOCK-ON" Feature

*Exclusive  
with*  
**BLACKHAWK**



**W**HAT IT IS — "Lock-On", Blackhawk's patented feature, makes interchangeable handles and sockets stay together like solid wrenches until you release them with a handy release key. Sockets and attachments can't come apart accidentally as with ordinary interchangeable socket wrenches.

**WHY NEEDED** — Ordinary friction balls wear and loosen allowing attachments to slip off. In hard-to-get-at places, around corners, and on burred nuts, it saves your time and knuckles to have sockets "locked-on" securely. Sockets cannot drop off and become lost.

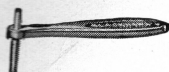
**WHERE NEEDED** — "Lock-On" is indispensable for work on clutches, transmissions, fly-wheel housings, aeroplane cowls — wherever and whenever accuracy, speed, and efficiency combine to do better and time-saving work. From your own experience, you can think of innumerable places where "Lock-On" is a real advantage.

**"LOCK-ON" USED OPTIONALLY** — Ordinary friction grip can be used by lining up socket with drive so that hole does not engage with plunger. (See page 4.)

**INTER-CHANGE UNIVERSALLY** — Blackhawk "Lock-On" sockets and handles inter-change with any other make having the same sized drive. Your present tools can be used with time-saving, up-to-the-minute Blackhawk wrenches.

### "LOCK-ON" RELEASE KEY

This new handy Release Key can be used for releasing all "Lock-On" Sockets in the  $\frac{3}{8}$ ",  $\frac{1}{2}$ " and  $\frac{3}{4}$ " square drive series.



No. 9004.....List Price, each \$0.25

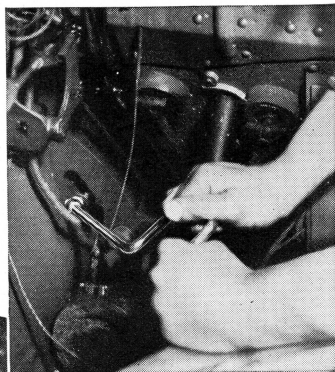


# BLACKHAWK WRENCHES

## Chrome Vanadium · Chromium Plated

### “Lock-On” Saves Time In Tricky Places

On Hudson or Terraplane “LOCK-ON” is essential. In removing clutch drain plug — if socket slips off it drops in the housing, necessitating tedious removal of housing to retrieve socket. “LOCKED-ON” sockets can't come off.



Here's another job for “LOCK-ON”. There is no chance for a Blackhawk socket to stick or drop in the housing when adjusting Steel-draulic brakes.



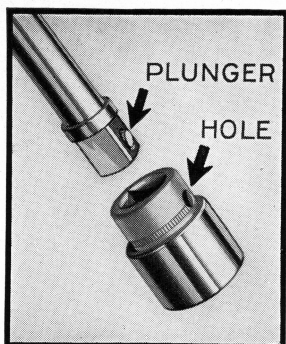
Indispensable for aeroplane work where adjustments are made while motors are hot. “LOCKED-ON” combinations can't come apart. For work between the hot cylinders this feature saves burnt hands — and time.



# BLACKHAWK WRENCHES

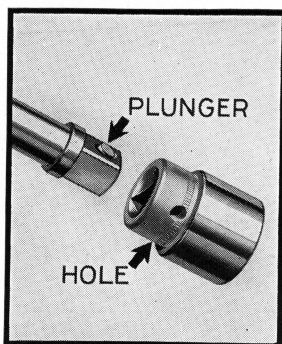
## Chrome Vanadium - Chromium Plated

### *How "Lock-On"* OPERATES *See how easy it is!*

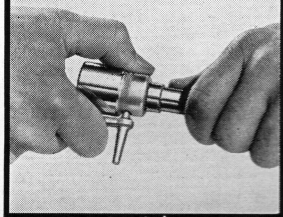


**TO LOCK THE SOCKET ON HANDLE.** Simply line up hole in socket wall with plunger in square drive on handle, as shown at the left — slip on and it can't come off until released. Socket and handle fit snugly, plunger in hole, and socket end to shoulder. Only Blackhawk wrenches have patented "LOCK-ON" feature.

**TO USE WITHOUT "LOCK-ON".** Slip socket on to square drive so that hole in socket is not in line with plunger in square drive. This means that three sides of socket are for frictional attachment and fourth side for "LOCK-ON" only. Sockets and attachments pull apart easily for quick change.



### IT'S EASY TO RELEASE LOCK-ON SOCKETS



**TO RELEASE THE SOCKETS.** Insert "LOCK-ON" Release Key in hole in socket wall — depress plunger and pull off socket. Remember to push down before pulling. In the Extra Heavy Duty series the "LOCK-ON" is constructed with a release button in the socket wall. To release, depress button with thumb and pull off socket.

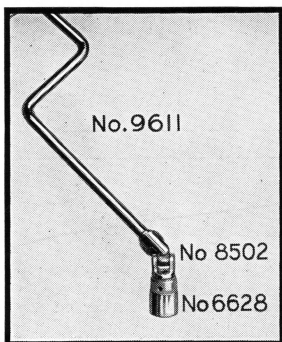
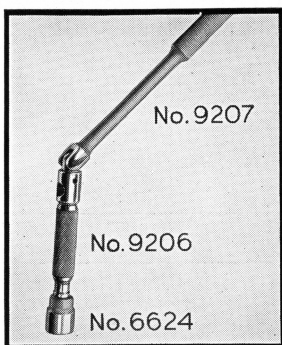


# BLACKHAWK WRENCHES

## Chrome Vanadium · Chromium Plated

### *It's easy to make* **COMBINATIONS** *and they stay put!*

Listen to the "click" as you put them together. Here's an ordinary connection of a socket, extension and hinged offset (note numbers). Blackhawk "LOCK-ON" joints are practical — they can't come apart until you release them. No lost time or bad tempers chasing sockets or attachments that have slipped off accidentally.

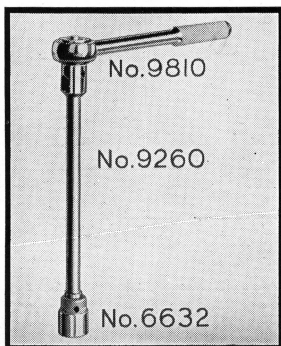


A Speeder, Universal Joint and Socket is a very common combination. Mighty handy for going 'round corners or doing speedy work on top — at side — or underneath a motor.

With "LOCK-ON" speed and confidence combine to do better, faster work. Without "LOCK-ON" caution must always be observed not to disengage the joints.

Another popular combination! The "Free Wheeling" Ratchet for limited swing — the long extension for depth work — the socket for gripping the nut or bolt — and "LOCK-ON" to make the three stay solidly together for more efficient operation.

Mechanics accept the Blackhawk "LOCK-ON" as the greatest improvement in wrench design since sockets and handles were made interchangeable.



# BLACKHAWK WRENCHES

## Chrome Vanadium · Chromium Plated

### Ratchets



Reversible  
"Free Wheeling"  
(Reg. Trade Mark)

Nos. 9707S and 9810

These new "Free-Wheeling" ratchet wrenches have these outstanding features—instant reverse without removing socket—noiseless, smooth operation—no teeth—no back lash—instant grip in any position—no play—small diameter head and narrow neck—light weight—and perfect balance. They are ideal for work in close confined places where clearance is small.

PATENTS  
PENDING

No.	Dia. of Head	Length	"Lock-On" Sq. Drive	List Price
9707S	1 $\frac{3}{16}$ "	7"	$\frac{3}{8}$ "	\$5.50
9810	1 $\frac{5}{8}$ "	10 $\frac{1}{2}$ "	$\frac{1}{2}$ "	6.50

### Mechanical Ratchets — Reversible $\frac{1}{2}$ " Square "Lock-On" Drive

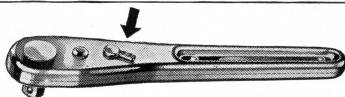


PATENTS  
PENDING

A greatly improved mechanical ratchet. Double ratchet engagement gives smoother action—reverses instantly without removing socket (see illustration Page 7)—small head,  $1\frac{3}{8}$ " diameter and narrow neck for close quarter work. Drop forged chrome vanadium steel.

Hollowed knurled grip permits the use of No. 9209 Handle Bar for additional leverage.

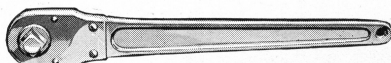
9809	1 $\frac{3}{8}$ "	10 $\frac{1}{2}$ "	$\frac{1}{2}$ "	\$5.00
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Redesigned to give mechanics a faster acting, easier reversing ratchet. Eighteen teeth insure smooth action and short bites in close quarters. Reverses instantly by flipping small lever on top of handle (see close-up view).

9811	1 $\frac{11}{16}$ "	10"	$\frac{1}{2}$ "	\$3.35
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### $\frac{3}{4}$ " & $\frac{7}{8}$ " Square "Lock-On" Drive



U. S. Pat. No. 1,873,472

U. S. Pat. No. 1,807,134

For heavy duty work of all kinds. Instantly reversible by shifting patented lug.

916N	2 $\frac{1}{4}$ "	16"	$\frac{3}{4}$ "	\$9.00
920	2 $\frac{7}{8}$ "	20"	$\frac{7}{8}$ "	15.00

### Replacement Drive Lugs for Ratchets

No.	"Lock-On" Sq. Drive	For use with No.	List Price
9802	$\frac{1}{2}$ "	Old 9811	\$0.45
T113XN	$\frac{3}{4}$ "	916N	1.00
T113XX	$\frac{7}{8}$ "	920N	1.00

LIBERAL DISCOUNT TO MECHANICS



# BLACKHAWK WRENCHES

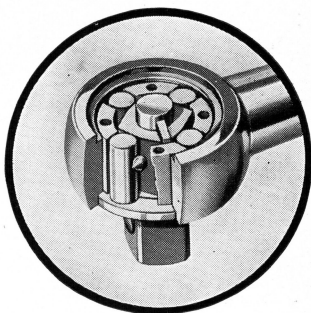
## Chrome Vanadium · Chromium Plated

### Exclusive Features of Blackhawk Ratchets

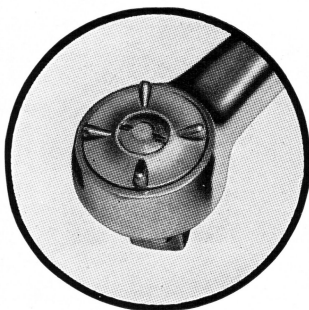
The Unique "Free Wheeler"

Cut-through view of the "Free Wheeler" showing the precision construction. Positive unyielding grip is provided by a miniature free-wheeling unit similar to that used in present-day car construction. The rollers are held firmly in contact by a spring-backed plunger, which prevents slipping and assures instant grip.

Made of tough drop forged chrome molybdenum steel, these "Free Wheelers" are the masters of every job.



For Minimum Clearance and Tough Grip



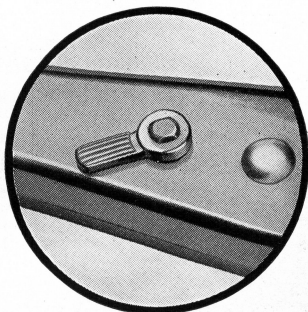
Here is a mechanical ratchet unusual in design. Notice the neat and narrow head of the 9809. Only  $1\frac{3}{8}$ " in diameter, it sneaks in wherever there is a nut. Convenient lobes on top plate facilitate reversing. Simply hold plate with thumb and turn socket. There is no necessity to remove the socket to reverse the action.

When it comes to toughness the 9809 beats anything.

Popular Ratchet Reasonably Priced

The 9811 is a popular mechanical ratchet of standard design. It is fast acting, smooth, and plenty strong. The reverse feature is simple — merely flip the convenient lever to the right or left to change the action. It's not necessary to remove the socket nor shift the drive lug.

This ratchet is time-tested, and has stood the gaff of hard, every-day work on all jobs.



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# BLACKHAWK WRENCHES

## Chrome Vanadium · Chromium Plated

### Offset Handles



*Blackhawk Offset Handles are built to give greater leverage — more power — and easier work. Notice the trim appearance and fine balance.*

### Hinged Offset Handles

No.	Stock Dia.	Length	"Lock-On" Sq. Drive	List Price
*9207S	$\frac{7}{16}$ "	8"	$\frac{3}{8}$ "	\$2.50
9207	$\frac{5}{8}$ "	11 $\frac{5}{8}$ "	$\frac{1}{2}$ "	2.85
9208	$\frac{5}{8}$ "	15 $\frac{5}{8}$ "	$\frac{1}{2}$ "	3.15
9217	$\frac{5}{8}$ "	18"	$\frac{1}{2}$ "	3.75
9207XN	$\frac{13}{16}$ "	19"	$\frac{3}{4}$ "	6.25

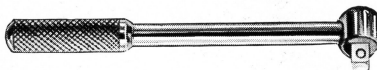
\*Does not have square opening in handle grip.

### Sliding Offsets



9204	$\frac{9}{16}$ "	11"	$\frac{1}{2}$ "	\$1.60
T4XN	$\frac{13}{16}$ "	18"	$\frac{3}{4}$ "	3.00

### Offset Handles



9201S	$\frac{7}{16}$ "	7 $\frac{1}{2}$ "	$\frac{3}{8}$ "	\$1.25
9201	$\frac{5}{8}$ "	10 $\frac{9}{16}$ "	$\frac{1}{2}$ "	1.75

### Obstruction Offset Handles



*1521	$\frac{9}{32}$ "	5"	$\frac{1}{4}$ "	\$1.25
9202	$\frac{5}{8}$ "	11"	$\frac{1}{2}$ "	2.25

\*Equipped with frictional lock only. No Lock-On.

### Handle Bars



No.				
1530	$\frac{1}{4}$ " dia., 4 $\frac{1}{2}$ " long. Used with 1525 to make T or L Wrenches	.....	List Price, each	\$0.40
9209S	$\frac{3}{8}$ " dia., 7" long. Used with 9203S, 9206S, 9207S, 9210S, 9218S and 9707S to make T or L wrenches	.....	List Price, each	.45
9209	$\frac{9}{16}$ " dia., 11" long. Used with 9206, 9207, 9208, 9210, 9217 and 9260 to make T or L wrenches. Also for extra leverage on 9202, 9809 and 9810.	.....	List Price, each	.60
9209XN	$\frac{13}{16}$ " dia., 18" long. Used with 9207XN to make T or L wrench or for extra leverage when inserted in end of grip.	.....	List Price, each	1.50

**LIBERAL DISCOUNT TO MECHANICS**

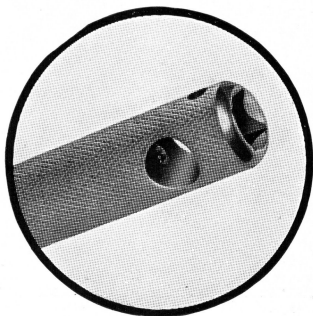
# BLACKHAWK WRENCHES

## Chrome Vanadium · Chromium Plated

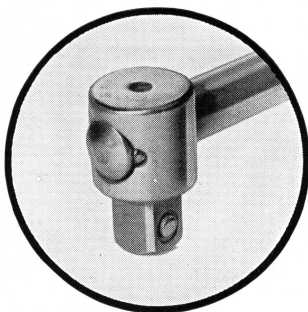
### Exclusive Features of Blackhawk Offset Handles

#### Triple Duty Wrenches

Hinged Offsets can also be used as extensions because of square broaching in end of handle as shown. And the cross hole permits the use of cross-handle bars to make T or L wrenches. This offset is a practical, handy tool that solves tricky problems on all repair jobs. Spring backed ball holds drive lug firmly in any position.



#### Trim, True and Tough

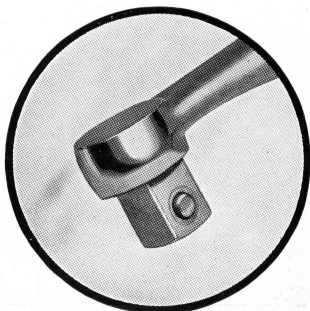


Sliding Offsets are engineered to give the greatest possible clearance for close quarters. Notice the handle does not stick out beyond the head of the wrench. The stop ball on the handle fits into the recess in the head, which prevents it from turning. A spring-backed ball in the head itself holds it in any position along the handle. A real convenience for overhead work where the weight of the socket ordinarily turns the head.

#### For Close, Tight Places

For real close clearance work, these Obstruction Offsets are indispensable. Notice the extremely thin wide throat — small narrow head — and fine finish. Quality chrome vanadium steel gives the necessary strength to make this tool one of the most useful and convenient for use in unusually tight places.

You should have one in your tool kit.



**LIBERAL DISCOUNT TO MECHANICS**



# BLACKHAWK WRENCHES

## Chrome Vanadium · Chromium Plated

### Speeders



*Speeders by Blackhawk mean faster and better work. They are made to stand the gaff of constant hard use—chrome vanadium steel makes them tough.*

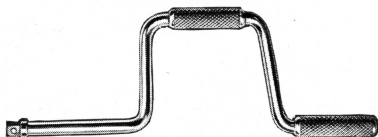
No. 9507

#### Hinged Universal Speeder (Shown Above)

A practical short sweep speeder that combines both a hinged shank for offset leverage and semi-universal action for speed in close quarters.

No.	Stock Dia.	Length	Shank Length	Sweep	"Lock-On" Sq. Drive	List Price
9507	$\frac{5}{8}$ "	17½"	7"	2¾"	½"	\$4.25

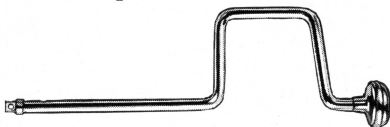
### Brace Handles



*9502S	$\frac{7}{16}$ "	10½"	2"	3⅜"	⅜"	\$1.75
9506	$\frac{9}{16}$ "	15⅝"	6"	4⅜"	½"	2.25

\*Revolving grip at end only.

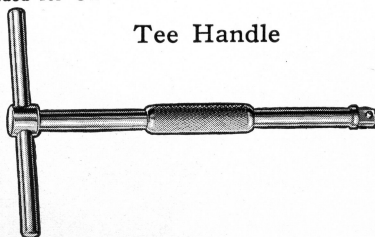
### Speeder Handles



*9510S	$\frac{7}{16}$ "	18"	10"	3⅜"	⅜"	\$1.75
9611	$\frac{9}{16}$ "	19"	11"	4⅜"	½"	2.25

\*Recommended for Oil Pan work.

### Tee Handle



No.	Stock Dia.	Handle Length	Crossbar Length	"Lock-On" Sq. Drive	List Price
9412	$\frac{9}{16}$ "	12"	8"	½"	\$2.50

Has sturdy revolving grip.

**LIBERAL DISCOUNT TO MECHANICS**

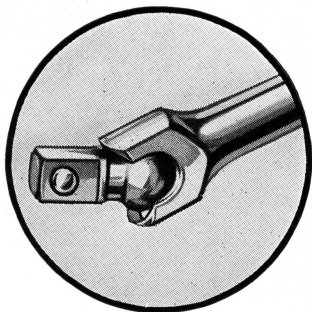
# BLACKHAWK WRENCHES

## Chrome Vanadium · Chromium Plated

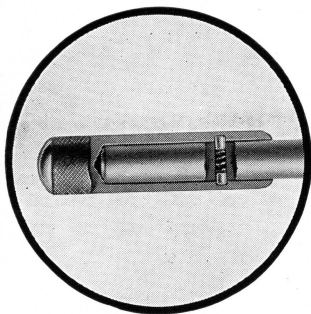
### Exclusive Features of Blackhawk Speeders

#### Speed and Leverage Combined

Here's a closeup of the head that makes the 9507 universal speeder a real nut hound. Slotted throat gives a full 90° offset for leverage and 45° full universal action. For speed work on tough nuts this is the wrench to use.



#### Patented Grip Construction

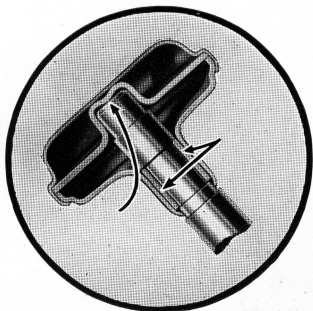


The grip handles on Blackhawk speeders never come off, stick, or jam. They're held by a patented method as shown here. This assures constant smooth action and brings more pleasure to your work.

They are comfortable too — and easy on the hands because of their careful knurling.

#### Hardened Bearings For Smoothness

A Blackhawk speeder is always a speed-handle — never hindered by a sticky grip. The arrows indicate the hardened thrust and sleeve bearing that prolong life — minimize wear and prevent sticking. Note the grip is spun onto the handle — can't come off.

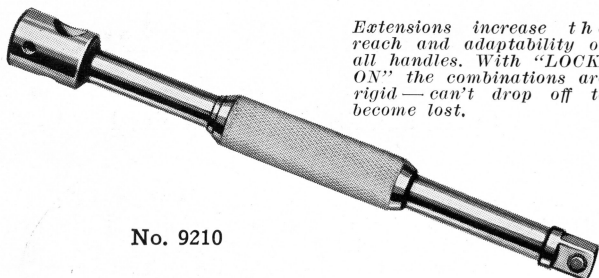


**LIBERAL DISCOUNT TO MECHANICS**

# BLACKHAWK WRENCHES

## Chrome Vanadium · Chromium Plated

### Extensions



*Extensions increase the reach and adaptability of all handles. With "LOCK-ON" the combinations are rigid—can't drop off to become lost.*

No. 9210

#### Extensions with Revolving Grip (Illustrated Above)

No.	Stock Dia.	Length	"Lock-On" Sq. Drive	List Price
9206	$\frac{5}{8}$ "	6"	$\frac{1}{2}$ "	\$1.75
9210	$\frac{5}{8}$ "	10"	$\frac{1}{2}$ "	2.00

#### Standard Extension Bars



*1525	$\frac{9}{32}$ "	5"	$\frac{1}{4}$ "	\$0.90
9203S	$\frac{7}{16}$ "	3"	$\frac{3}{8}$ "	1.10
9206S	$\frac{7}{16}$ "	5"	$\frac{3}{8}$ "	1.20
9210S	$\frac{7}{16}$ "	10"	$\frac{3}{8}$ "	1.30
9218S	$\frac{7}{16}$ "	18"	$\frac{3}{8}$ "	1.75
9260	$\frac{9}{16}$ "	10"	$\frac{1}{2}$ "	1.50

\*Not equipped with Lock-On.

#### Heavy and Extra Heavy Duty Extensions



T8XN	$\frac{13}{16}$ "	8½"	$\frac{3}{4}$ "	\$2.25
T17XN	$\frac{13}{16}$ "	17"	$\frac{3}{4}$ "	2.75
T8XX	1"	9"	$\frac{7}{8}$ "	5.00
T17XX	1"	18"	$\frac{7}{8}$ "	6.00

#### Sliding T — Extra Heavy Duty



No.

T4XX—Bar only, 1" dia., 24" long. Used with T8XX, T17XX and T40XX .....List Price, each \$2.25

T40XX—Head and adaptor for T4XX,  $\frac{7}{8}$ " Square Lock-On Drive .....List Price, each 3.00

All Extra Heavy Duty Series— $\frac{7}{8}$ " sq. drive—are finished in Cadmium.

**LIBERAL DISCOUNT TO MECHANICS**



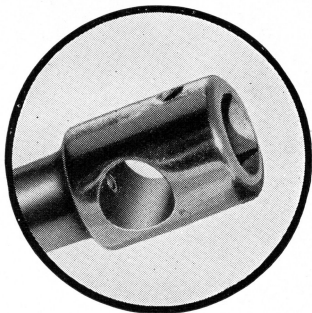
# BLACKHAWK WRENCHES

## Chrome Vanadium · Chromium Plated

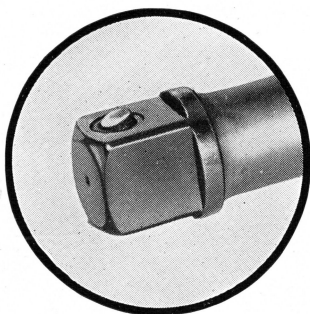
### Exclusive Features of Blackhawk Extensions

#### More Than An Extension

Blackhawk Extensions do double duty service — cross hole in the head takes a handle bar to make either a T or L handle. You will find this combination a handy, practical tool that increases the adaptability and usefulness of all Blackhawk Extensions. A spring ball holds the handle bar firmly in any position.



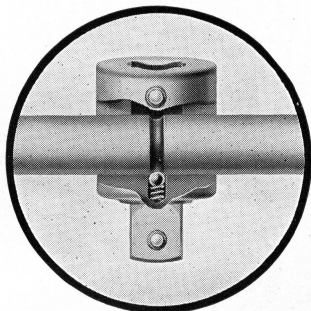
#### A Finished Tool From Stem to Stern



Notice the trim, clean, business-like appearance of the Blackhawk drive. The edges are chamfered to prevent sticking — milled to a perfect fit to prevent wobbling sockets — and the butt stop keeps sockets firmly in a driving position for most efficient work. From stem to stern the tool is made to stand up under the hardest work and to give the greatest service.

#### Here's a Real Convenience

Here's a feature of all Blackhawk Sliding T Handles — spring ball in head engages with groove in center of handle to prevent slipping — gives a firm T. The same spring-back ball holds the head in other positions as well, and prevents it from turning due to the weight of the socket. A real convenience for heavy work, particularly on overhead jobs.



**LIBERAL DISCOUNT TO MECHANICS**

# BLACKHAWK WRENCHES

## Chrome Vanadium - Chromium Plated

### Thin Wall Double Hex Sockets

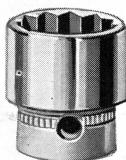
#### Extra Small Series— $\frac{1}{4}$ " Square Drive



Socket No.	Socket Size	List Price
*1506	$\frac{3}{16}$	\$0.40
*1507	$\frac{7}{16}$	.40
*1508	$\frac{3}{8}$	.40
*1509	$\frac{1}{2}$	.40
1510	$\frac{5}{8}$	.40
1511	$\frac{11}{16}$	.40
1512	$\frac{3}{4}$	.40
1514	$\frac{7}{8}$	.40

\*Single Hex.

#### Small Series— $\frac{3}{8}$ " Square Lock-On Drive



7808S	$\frac{1}{4}$	.60
7810S	$\frac{5}{16}$	.60
7812S	$\frac{3}{8}$	.60
7814S	$\frac{7}{16}$	.60
*7816S	$\frac{1}{2}$	.60
7818S	$\frac{9}{16}$	.60
7820S	$\frac{5}{8}$	.60
7822S	$\frac{11}{16}$	.70
7824S	$\frac{3}{4}$	.70

\*Fits Ford Oil Pan Cap Screws.

#### Standard Series— $\frac{1}{2}$ " Square Lock-On Drive



6614	$\frac{7}{16}$	.75
6616	$\frac{1}{2}$	.75
6618	$\frac{9}{16}$	.75
6619	$\frac{19}{32}$	.75
6620	$\frac{5}{8}$	.75
6621	$\frac{11}{16}$	.75
6622	$\frac{11}{16}$	.75
6624	$\frac{3}{4}$	.90
6625	$\frac{25}{32}$	.90
6626	$\frac{13}{16}$	.90
6628	$\frac{7}{8}$	.90
6630	$\frac{15}{16}$	1.00
6631	$\frac{31}{32}$	1.00
6632	1	1.00
6634	$1\frac{1}{8}$	1.25

No.

6600—Set of 14 Standard Series Sockets— $\frac{7}{16}$ " to 1".... \$11.85

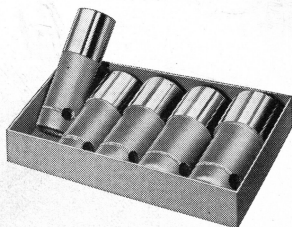
#### Spark Plug Sockets— $\frac{1}{2}$ " Sq. Lock-On Drive



Socket No.	Socket Size In.	Overall Lgth. In.	Max. Dia. In.	List Price
*8926	$\frac{13}{16}$	$3\frac{1}{4}$	$1\frac{1}{16}$	\$1.40
8928	$\frac{7}{8}$	$3\frac{1}{4}$	$1\frac{3}{32}$	1.40
8930	$\frac{15}{16}$	$3\frac{1}{4}$	$1\frac{1}{4}$	1.55
*8932	1	$3\frac{1}{4}$	$1\frac{9}{32}$	1.55
8936	$1\frac{1}{8}$	$3\frac{1}{4}$	$1\frac{7}{16}$	1.75

\*For 14MM Metric Plugs.

\*\*For 18MM Metric Plugs.



No.

8900—Set of 5 Spark Plug Sockets.\$7.65

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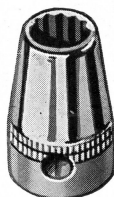
# BLACKHAWK WRENCHES

## Chrome Vanadium - Chromium Plated

### Regular Double Hex Sockets

Standard Series— $\frac{1}{2}$ " Sq. "Lock-On" Drive

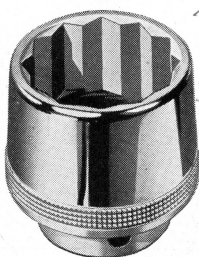
Socket No.	Socket Size	List Price
8412	$\frac{3}{8}$ "	\$0.60
8414	$\frac{7}{16}$ "	.60
8416	$\frac{1}{2}$ "	.60
8418	$\frac{9}{16}$ "	.60
8419	$\frac{1 1}{16}$ "	.60
8420	$\frac{5}{8}$ "	.60
8421	$\frac{21}{32}$ "	.60
8422	$\frac{11}{16}$ "	.60
8424	$\frac{3}{4}$ "	.75
8425	$\frac{25}{32}$ "	.75
8426	$\frac{13}{16}$ "	.75
8428	$\frac{7}{8}$ "	.75
8430	$\frac{1 1}{8}$ "	.90
8431	$\frac{1 1}{4}$ "	.90
8432	1"	.90
8434	$1 \frac{1}{16}$ "	1.00
8436	$1 \frac{1}{8}$ "	1.10
8440	$1 \frac{1}{4}$ "	1.20



338  
980

Heavy Duty Series— $\frac{3}{4}$ " Sq. "Lock-On" Drive

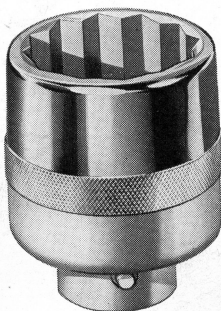
D28XN	$\frac{7}{8}$ "	.90
D30XN	$\frac{15}{16}$ "	.90
D31XN	$\frac{29}{32}$ "	.90
D32XN	1"	.90
D34XN	$1 \frac{1}{16}$ "	1.15
D36XN	$1 \frac{1}{8}$ "	1.15
D38XN	$1 \frac{1}{4}$ "	1.15
D40XN	$1 \frac{1}{2}$ "	1.30
D42XN	$1 \frac{5}{8}$ "	1.30
D44XN	$1 \frac{3}{4}$ "	1.30
D46XN	$1 \frac{7}{8}$ "	1.55
D48XN	$1 \frac{1}{2}$ "	1.55
D50XN	$1 \frac{9}{16}$ "	1.80
D52XN	$1 \frac{5}{8}$ "	1.80
D54XN	$1 \frac{11}{16}$ "	2.25
D56XN	$1 \frac{3}{4}$ "	2.25
D58XN	$1 \frac{13}{16}$ "	2.50
D60XN	$1 \frac{7}{8}$ "	2.50
D64XN	2"	3.00



711  
198  
909

Extra Heavy Duty Series —  
 $\frac{7}{8}$ " Square "Lock-On" Drive

D34XX	$1 \frac{1}{16}$ "	1.60
D36XX	$1 \frac{1}{8}$ "	1.60
D40XX	$1 \frac{1}{4}$ "	1.70
D42XX	$1 \frac{5}{16}$ "	1.70
D44XX	$1 \frac{3}{8}$ "	1.70
D46XX	$1 \frac{7}{16}$ "	1.85
D48XX	$1 \frac{1}{2}$ "	2.25
D50XX	$1 \frac{9}{16}$ "	2.25
D52XX	$1 \frac{5}{8}$ "	2.50
D54XX	$1 \frac{11}{16}$ "	3.00
D56XX	$1 \frac{3}{4}$ "	3.00
D58XX	$1 \frac{13}{16}$ "	3.50
D60XX	$1 \frac{7}{8}$ "	3.50
D62XX	$1 \frac{15}{16}$ "	4.00
D64XX	2"	4.00
D66XX	$2 \frac{1}{16}$ "	4.50
D68XX	$2 \frac{1}{8}$ "	4.75
D70XX	$2 \frac{3}{16}$ "	5.25
D72XX	$2 \frac{1}{4}$ "	5.50
D74XX	$2 \frac{5}{16}$ "	6.00
D76XX	$2 \frac{3}{8}$ "	6.25
D78XX	$2 \frac{7}{16}$ "	7.50
D80XX	$2 \frac{1}{2}$ "	8.75
D82XX	$2 \frac{9}{16}$ "	10.00
D84XX	$2 \frac{5}{8}$ "	11.25
D86XX	$2 \frac{11}{16}$ "	12.50
D88XX	$2 \frac{3}{4}$ "	13.75



Cadmium Plated.  
With built-in "Lock-On"  
thumb release button —  
no key necessary.

Larger Sizes can be furnished on request.

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# BLACKHAWK WRENCHES

## Chrome Vanadium · Chromium Plated

### Sockets and Attachments

#### Double Square Sockets

#### Extra Small Series — 1/4" Square Drive



Socket No.	Socket Size	List Price
*1553	3/16"	\$0.40
1554	1/4"	.40
1555	5/16"	.40
1556	3/8"	.50
1557	7/16"	.50
1558	1/2"	.50

\*Single Square.

#### Small Series —

#### 3/8" Square "Lock-On" Drive

Nos. 1553 Series  
8108S  
8110S  
8112S  
8114S  
D028XN

Socket No.	Socket Size	List Price
8108S	1/4"	.70
8110S	5/16"	.70
8112S	3/8"	.70
8114S	7/16"	.80
8116S	1/2"	.80

#### Standard Series—1/2" Sq. "Lock-On" Drive

Socket No.	Socket Size	List Price	Socket No.	Socket Size	List Price
8110	5/16"	\$0.65	8122	1 1/16"	\$0.70
8112	3/8"	.65	8124	3/4"	.80
8114	7/16"	.65	8125	23/32"	.80
8116	1/2"	.65	8126	1 1/8"	.90
8118	9/16"	.65	8128	7/8"	.90
8119	1 3/32"	.65	8130	1 1/16"	1.10
8120	5/8"	.65	8132	1"	1.10

#### Heavy Duty Series—3/4" Sq. "Lock-On" Drive

Socket No.	Socket Size	List Price	Socket No.	Socket Size	List Price
D028XN	7/8"	2.00	D040XN	1 1/4"	3.00
D032XN	1"	2.25	D046XN	1 7/16"	3.50
D034XN	1 1/16"	2.50	D052XN	1 5/8"	4.00

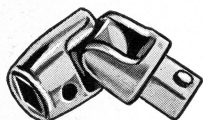
Note: Extra Heavy Duty Square Sockets with 7/8" Square "Lock-On" Drive furnished on Special order only.

#### Stud Setter and Extractor



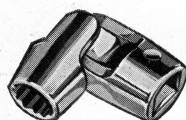
No. 8560—Used with any standard 1/2" square drive handle. Set or remove studs from 1/4" to 5/8". Has 3 drilled holes for changes as serrations wear. Gears are milled and not knurled providing longer life..List Price, each \$3.25

#### Universal Joints



No.	Square Drive	List Price
1502	1/4" Friction Ball	\$1.75
8502S	3/8" Lock-On	2.05
8502	1/2" Lock-On	2.25
T2XN	3/4" Lock-On	6.25

#### Universal Joint Sockets



No.	Socket Size	"Lock-On" Sq. Drive	List Price
8512S	3/8"	3/8"	\$2.25
8514S	7/16"	3/8"	2.25
8516S	1/2"	3/8"	2.25
8518S	9/16"	3/8"	2.25
8520S	5/8"	3/8"	2.25

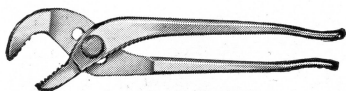
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# LACKHAWK WRENCHES

## Chrome Vanadium · Chromium Plated

### Handles and Attachments

#### Universal Water Pump Pliers



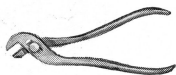
Thin tough jaws that work their way into the closest quarters—long balanced handles curved to fit the hand—instant five position adjustment, with a range 0" to 2"—tough chrome vanadium steel—and chromium plated. This Universal Water Pump Plier fits Water Pump Packing Nuts on practically all cars. Thickness of jaws,  $\frac{1}{4}$ "; length of handle,  $9\frac{1}{2}$ ".

No.

12001—.....List Price, each \$2.00

#### Universal Ignition Pliers

New style Ignition Pliers, full-fashioned grip. Easier to hold and to work with. For ignition service, carburetors, radios and other small jobs. Three position slip jaw adjustment—0" to  $\frac{5}{8}$ ". Thickness of jaws,  $\frac{1}{8}$ "; over all length, 5".



No.

H1—.....List Price, each \$1.60

#### Midget Grip Handle

5" long,  $\frac{1}{4}$ " square friction drive. Has hard rubber handle giving sturdy grip for speed and leverage. Adapted for use with No. 1521 as an L wrench.



No.

1523—.....List Price, each \$1.50

#### Crowfoot Wrenches

For aeronautical and automotive work. Jaws similar to open end wrenches for sure grip in otherwise inaccessible places.



No.	Size of Opening	Stock Dia.	Length	"Lock-On" Sq. Drive	List Price
2816S	$\frac{1}{2}$ "	$\frac{7}{16}$ "	$3\frac{1}{4}$ "	$\frac{3}{8}$ "	\$1.75
2818S	$\frac{9}{16}$ "	$\frac{7}{16}$ "	$3\frac{1}{2}$ "	$\frac{3}{8}$ "	1.75
2820S	$\frac{5}{8}$ "	$\frac{7}{16}$ "	$3\frac{1}{2}$ "	$\frac{3}{8}$ "	1.75

#### Tie Rod and Screw Driver Attachments

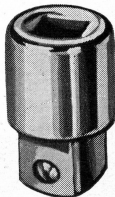
No.	Edge of Blade	Overall Length	"Lock-On" Sq. Drive	List Price
8552S	$\frac{11}{16}$ " x $\frac{1}{16}$ "	1"	$\frac{3}{8}$ "	\$0.70
8552	$\frac{15}{16}$ " x $\frac{7}{64}$ "	$1\frac{1}{2}$ "	$\frac{1}{2}$ "	.85



#### Adaptors

Equipped With "Lock-On" Drive

Adaptor Number	Female Opening	Used on Handles to	Male End	List Price
T9XN	$\frac{1}{2}$ "	Increase to	$\frac{3}{4}$ "	\$1.10
T9XX	$\frac{3}{4}$ "	Increase to	$\frac{7}{8}$ "	2.00
T9N	$\frac{3}{4}$ "	Decrease to	$\frac{1}{2}$ "	1.25
T90	$\frac{7}{8}$ "	Decrease to	$\frac{3}{4}$ "	2.00

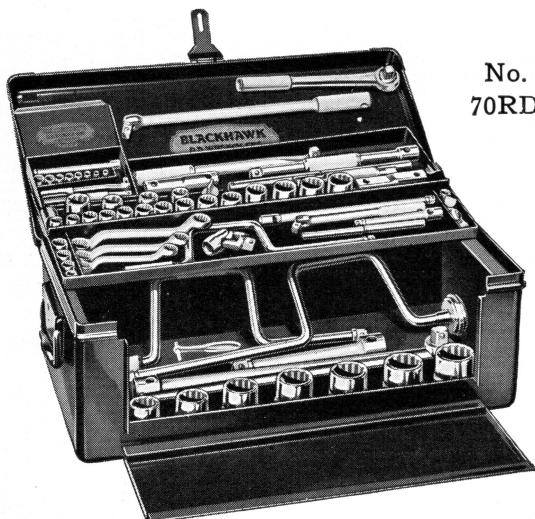


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# BLACKHAWK WRENCHES

## Chrome Vanadium - Chromium Plated

### The Treasure Chest



No.  
70RD

Here's the set you will want to own. If you work with tools the Treasure Chest is your professional chest.

The finest achievement in a complete, compact assortment of essential handles, attachments and sockets. For every job — electrical, radio, airplane, automotive or industrial — from ignition work to largest buses, trucks, tractors or farm machinery.

Individual name plate identifies Treasure Chest as your own.

#### Contents of Set:

##### Extra Small Series — $\frac{1}{4}$ " Square Drive

One each Midget Obstruction Offset No. 1521, Grip Handle No. 1523 and Extension Bar No. 1525; Single Hex Sockets from  $\frac{1}{16}$ " to  $\frac{9}{32}$ ", Nos. 1506, 1507, 1508 and 1509; Double Hex Sockets from  $\frac{5}{16}$ " to  $\frac{1}{2}$ ", Nos. 1510, 1511, 1512 and 1514. All Packed in individual metal case "N".

##### Small Series — $\frac{3}{8}$ " Square "Lock-On" Drive

One each Speeder Handle No. 9510S, Hinged Offset No. 9207S, Handle Bar No. 9209S, Extension Bars Nos. 9206S and 9210S, Screw Driver No. 8552S, Universal Joint No. 8502S; Double Hexagon Sockets from  $\frac{3}{8}$ " to  $\frac{5}{8}$ ", Nos. 7812S, 7814S, 7816S, 7818S and 7820S.

##### Standard Series — $\frac{1}{2}$ " Square "Lock-On" Drive

One each Standard Speeder No. 9611, Brace Handle No. 9506, Free Wheeling Ratchet Wrench No. 9810, Extension Nos. 9206 and 9210, Handle Bar No. 9209, Hinged Offset No. 9208, Obstruction Offset No. 9202, Screw Driver No. 8552, Universal Joint No. 8502; Double Hexagon Sockets from  $\frac{7}{16}$ " to 1", Nos. 6614, 6616, 6618, 6619, 6620, 6622, 6624, 6625, 6626, 6628, 6630, 6631, 6632; Double Square Sockets from  $\frac{7}{16}$ " to  $\frac{3}{4}$ ", Nos. 8114, 8116, 8118, 8120 and 8124. Two "Lock-On" Release Keys, No. 9004.

##### Heavy Duty Series — $\frac{3}{4}$ " Square "Lock-On" Drive

One each Sliding Offset No. T4XN, Extensions Nos. T8XN and T17XN, Double Hexagon Sockets from  $1\frac{1}{16}$ " to  $1\frac{13}{16}$ ", Nos. D34XN, D36XN, D40XN, D44XN, D46XN, D48XN, D56XN and D58XN.

##### Short Box Type Wrenches

One each Nos. 15176, 15177 and 15178. Sizes  $\frac{3}{8}$ " to  $1\frac{1}{8}$ " Double Hex.

##### Spark Plug Sockets

One each Pressed Steel Sockets, Nos. 3329 and 3731, and Handle No. 3750.

List  
Price

70RD Set—70 pieces, complete in R case.....\$ 99.40

70WD Set—Same as above, complete in W case..... 108.40

R Case only—23 $\frac{1}{4}$ " long, 8 $\frac{3}{4}$ " high, 11 $\frac{1}{4}$ " wide.... 16.00

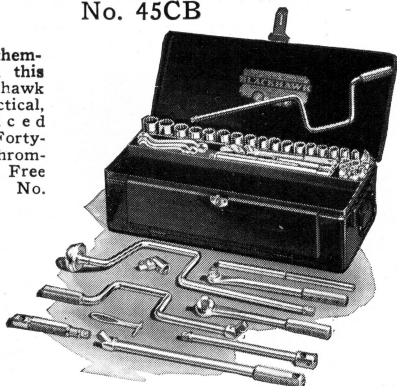
**LIBERAL DISCOUNT TO MECHANICS**

# BLACKHAWK WRENCHES

## Chrome Vanadium · Chromium Plated

### The Junior Treasure Chest No. 45CB

Expert mechanics themselves helped design this assortment of Blackhawk Wrenches. It's practical, complete, and priced within your reach. Forty-five (45) tools — chromium plated. Includes Free Wheeling Ratchet No. 9810. Nickered name-plate with your name free.



#### Contents of Set:

#### Small Series — $\frac{3}{8}$ " Square "Lock-On" Drive

One each Nos. 9510S, 9207S, 9209S, 9206S, 9210S, 8502S and 8552S; Double Hex Sockets,  $\frac{1}{4}$ " to  $\frac{5}{8}$ ", Nos. 7808S, 7810S, 7812S, 7814S, 7816S, 7818S and 7820S.

#### Standard Series — $\frac{1}{2}$ " Square "Lock-On" Drive

One each Nos. 9611, 9507, 9202, 9208, 9209, 9810, 9206, 9260, 8502, 8552 and 9004; Double Hex Sockets,  $\frac{7}{16}$ " to 1", Nos. 6614, 6616, 6618, 6619, 6620, 6622, 6624, 6625, 6626, 6628, 6630 and 6632; Double Square Sockets,  $\frac{7}{16}$ " to  $\frac{3}{4}$ ", Nos. 8114, 8116, 8118, 8120 and 8124; Box Types Nos. 15176, 15177 and 15178.

No.  
45CB—Complete .....List Price, \$64.10  
CB Case only—20 $\frac{1}{2}$ " long, 8 $\frac{5}{8}$ " wide, 6 $\frac{1}{4}$ " high  
.....List Price, 8.50

#### No. 40CB Set

Similar to No. 45CB but with  $\frac{3}{4}$ " heavy duty series in place of  $\frac{3}{8}$ " small series, as follows:

Nos. T4XN, T8XN and T17XN; Double Hex Sockets,  $1\frac{1}{16}$ " to  $1\frac{1}{8}$ ", D34XN, D36XN, D40XN, D44XN, D46XN, D48XN, D52XN, D56XN and D58XN.

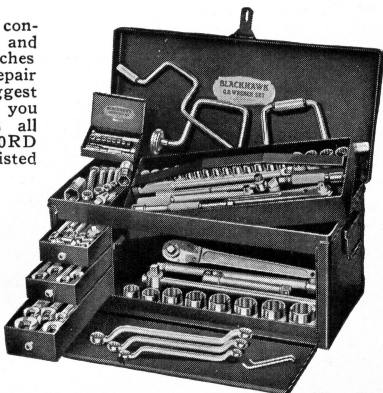
No.  
40CB—Complete .....List Price, \$70.15

### "Big Chief" Chest No. 87WD

Here's a set that contains all the socket and Open End Wrenches necessary for all repair jobs. It's the biggest and finest assortment you can own. Contains all the tools of the No. 70RD set plus the ones listed below—

#### Contents:

Same as No. 70RD plus:—No. 916N, D 5 2 X N. 1 5 1 8 2, 1 5 1 8 3, 15184, 1723, 1025, 1027C, 1 0 2 8 S, 1731A and 1033C; two each Nos. 422, 424 and 426.



No.  
87WD—Complete .....List Price, \$135.60  
W Case Only, 27" long, 12" high, 13" wide..List Price, 30.00

**LIBERAL DISCOUNT TO MECHANICS**



# BLACKHAWK WRENCHES

## Chrome Vanadium - Chromium Plated

### Wrench Sets

#### No. 16ND — Ignition Set



A complete new assortment of extra small series  $\frac{1}{4}$ " square drive wrenches together with miniature open-end wrenches for delicate work in close quarters. It's a "honey" for fussy jobs.

##### Contents of Set:

One each Nos. 1521, 1523 and 1525; Sockets  $\frac{3}{16}$ " to  $\frac{7}{16}$ ", Nos. 1506, 1507, 1508, 1509, 1510, 1511, 1512 and 1514; Open Ends Nos. H10, H12, H14, H16 and H18.

No.

16ND Set—Complete .....List Price, \$10.00

#### No. 11ND — Midget Set



A practical set for relays, generators, starters, switches, radios, etc. Similar to 16ND but without Open End Wrenches.

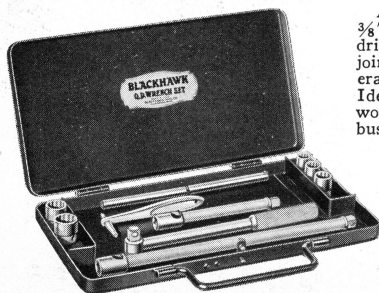
##### Contents of Set:

One each Nos. 1521, 1523 and 1525; Sockets  $\frac{3}{16}$ " to  $\frac{7}{16}$ ", Nos. 1506, 1507, 1508, 1509, 1510, 1511, 1512 and 1514.

No.

11ND Set—Complete .....List Price, \$7.60

#### No. 10HD Set



A small series set with  $\frac{3}{8}$ " square "Lock-On" drive. Fine for universal joints, water pumps, generators, oil pumps, etc. Ideal for all precision work on cars, trucks and buses.

##### Contents of Set:

One each Nos. 9201S, 9206S, 9210S, 9209S and 9004; Double Hex Sockets  $\frac{3}{8}$ " to  $\frac{5}{8}$ ", Nos. 7812S, 7814S, 7816S, 7818S and 7820S.

No.

10HD Set—Complete .....List Price, \$8.70

**LIBERAL DISCOUNT TO MECHANICS**

# BLACKHAWK WRENCHES

## Chrome Vanadium · Chromium Plated

### Wrench Sets

The Hot Box — No. 27CB

Here's a snappy set of wrenches that offers you a representative assortment of time-saving tools.

Eleven thin walled straight side sockets—Free Wheeling Ratchet—box type wrenches—and other necessary tools. All tools  $\frac{1}{2}$ " Square "Lock-On" Drive.



#### Contents of Set:

One each Nos. 9611, 9810, 9208, 9206, 9260, 9209, 8502, 8552 and 9004; Double Hex Sockets  $\frac{7}{16}$ " to 1", Nos. 6614, 6616, 6618, 6620, 6621, 6622, 6624, 6626, 6628, 6630 and 6632; Double Square Sockets  $\frac{7}{16}$ " to  $\frac{5}{8}$ ", Nos. 8114, 8116, 8118 and 8120; Box Type Nos. 15176, 15177 and 15178.

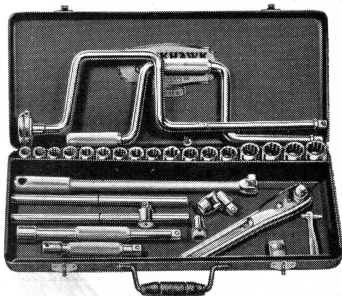
No. 27CB Set—Complete .....List Price, \$41.75

### No. 30CD Set

Thirty popular tools for general repair work. Sockets are standard wall design. All tools  $\frac{1}{2}$ " Square "Lock-On" Drive.

#### Contents of Set:

One each Nos. 9611, 9506, 9811, 9208, 9209, 9204, 9210, 9206, 8502, 8552, two each No. 9004; Double Hex Sockets  $\frac{3}{8}$ " to 1", Nos. 8412, 8414, 8416, 8418, 8419, 8420, 8422, 8424, 8425, 8426, 8428, 8430, 8431 and 8432; Double Square Sockets  $\frac{7}{16}$ " to  $\frac{5}{8}$ ", Nos. 8114, 8116, 8118 and 8120.



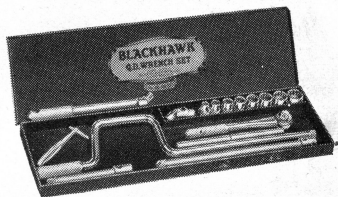
No. 30CD Set—Complete .....List Price, \$36.55

### No. 16QD Set

Modern car construction makes this  $\frac{3}{8}$ " Square "Lock-On" Drive set popular for quick repairs. Includes new Free Wheeling ratchet.

#### Contents of Set:

One each Nos. 9510S, 9707S, 9206S, 9210S, 9207S, 9209S, 8502S and 9004; Double Hex Sockets  $\frac{1}{8}$ " to  $\frac{3}{4}$ ", Nos. 7810S, 7812S, 7814S, 7816S, 7818S, 7820S, 7822S and 7824S.



No. 16QD Set—Complete .....List Price, \$21.60

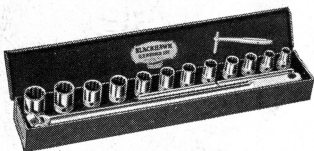
**LIBERAL DISCOUNT TO MECHANICS**

# BLACKHAWK WRENCHES

## Chrome Vanadium - Chromium Plated

### Wrench Sets

#### No. 15TD Set



Includes twelve thin wall sockets, offset handle and cross bar.  $\frac{1}{2}$ " Square "Lock-On" Drive.

#### Contents of Set:

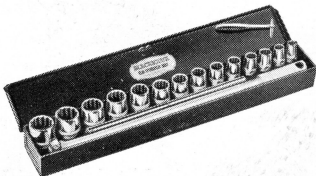
One each Nos. 9217, 9209 and 9004; Double Hex Sockets  $\frac{7}{16}$ " to 1", Nos. 6614, 6616, 6618, 6619, 6620, 6622, 6624, 6625, 6626, 6628, 6630 and 6632.

No.

15TD Set—Complete .....List Price, \$16.45

#### No. 17TD Set

More sockets than in the 15TD but with standard wall design.  $\frac{1}{2}$ " Square "Lock-On" Drive.



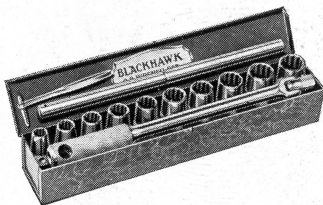
#### Contents of Set:

One each Nos. 9217, 9209 and 9004; Double Hex Sockets  $\frac{3}{8}$ " to  $1\frac{1}{8}$ ", Nos. 8412, 8414, 8416, 8418, 8419, 8420, 8422, 8424, 8426, 8428, 8430, 8432, 8434 and 8436.

No.

17TD Set—Complete .....List Price, \$16.70

#### No. 13PD Set



Similar to No. 17TD but with four less tools and in smaller case.

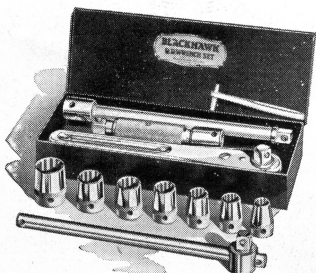
#### Contents of Set:

One each Nos. 9207, 9209 and 9004; Double Hex Sockets  $\frac{3}{8}$ " to  $1\frac{1}{8}$ ", Nos. 8412, 8414, 8416, 8418, 8419, 8420, 8422, 8424, 8428 and 8430.

No.

13PD Set—Complete .....List Price, \$10.95

#### No. 12PD Set



An unusual assortment of twelve tools for ordinary repairs. Its cost is low but gives you a fine useful set.  $\frac{1}{2}$ " Square "Lock-On" Drive.

#### Contents of Set:

One each Nos. 9204, 9811, 9206, 9260 and 9004; Double Hex Sockets  $\frac{7}{16}$ " to  $\frac{7}{8}$ ", Nos. 8414, 8416, 8418, 8420, 8422, 8424 and 8428.

No.

12PD Set—Complete .....List Price, \$13.60

**LIBERAL DISCOUNT TO MECHANICS**

# BLACKHAWK WRENCHES

## Chrome Vanadium - Chromium Plated

### Wrench Sets

#### No. 12SD — Heavy Duty Set

Mechanics in truck and bus shops will welcome this assortment. Powerful tools for heavy-duty use.  $\frac{3}{4}$ " Square "Lock-On" Drive.



##### Contents of Set:

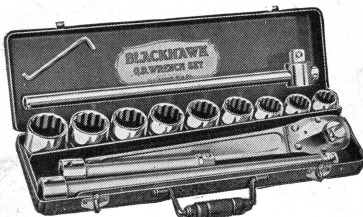
One each Nos. 9207XN, 9209XN and 9004; Double Hex Sockets 1" to  $1\frac{5}{8}$ ", Nos. D32XN, D34XN, D36XN, D40XN, D42XN, D44XN, D46XN, D48XN and D52XN.

No.

12SD Set—Complete .....List Price, \$22.75

#### No. 14BD — Heavy Duty Set

Ideal for all repair work on trucks, tractors, farm implements, and other heavy machinery.  $\frac{3}{4}$ " Square "Lock-On" Drive.



##### Contents of Set:

One each Nos. 916N, T4XN, T17XN, T8XN, and 9004; Double Hex Sockets 1" to  $1\frac{5}{8}$ ", Nos. D32XN, D34XN, D36XN, D40XN, D42XN, D44XN, D46XN, D48XN and D52XN.

No.

14BD Set—Complete .....List Price, \$33.25

#### No. 12ED — Extra Heavy Duty Set

This handles all the tough jobs on heavy equipment. All tools have built-in "Lock-On" feature — no release key necessary.  $\frac{7}{8}$ " Square "Lock-On" Drive.



##### Contents of Set:

One each Nos. 920, T8XX, T17XX and T4XX; Offset Adaptor and Head for bar No. T40XX; Double Hex Sockets  $1\frac{1}{4}$ " to  $2\frac{3}{8}$ ", Nos. D40XX, D46XX, D52XX, D58XX, D64XX, D70XX and D76XX.

No.

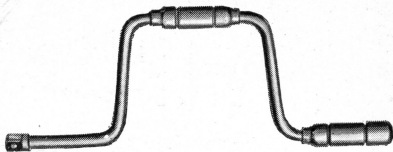
12ED Set—Complete .....List Price, \$65.30

**LIBERAL DISCOUNT TO MECHANICS**

This, and the following pages, describe the competitive line of Blackhawk wrenches. Material is selected steel — finish is cadmium plated. These tools are strong, durable but not quite so finely finished as those described in preceding pages. Mechanics may buy these tools with confidence and save money. Fully guaranteed against all defects in workmanship and material.

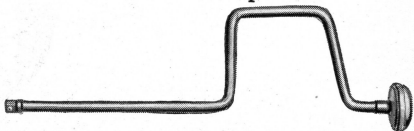
## Handles

### No. 500 — Brace Handle



No.	Stock Dia.	Length	Shank Length	Sweep	Square Drive	List Price
500	$\frac{1}{2}$ "	15 $\frac{5}{8}$ "	4 $\frac{7}{8}$ "	4 $\frac{7}{8}$ "	$\frac{1}{2}$ "	\$1.10

### No. 610 — Speeder



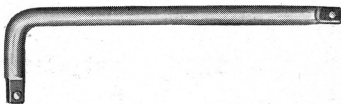
610	$\frac{9}{16}$ "	19"	11"	4 $\frac{1}{16}$ "	$\frac{1}{2}$ "	\$1.35
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### No. 110X — Offset Handle



No.	Stock Dia.	Length	Square Drive	List Price
110X	$\frac{5}{8}$ "	10 $\frac{9}{16}$ "	$\frac{1}{2}$ "	\$1.00

### No. T5 — Double End Offset



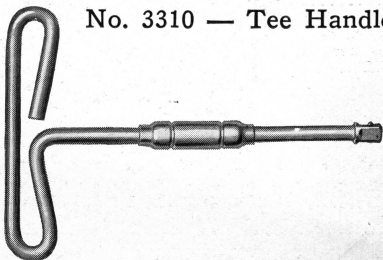
T-5	$\frac{3}{32}$ "	3 x 10"	$\frac{1}{2}$ "	\$0.75
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### No. T4 — Sliding Tee



T-4	$\frac{9}{16}$ "	10 $\frac{1}{4}$ "	$\frac{1}{2}$ "	\$0.90
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### No. 3310 — Tee Handle



3310	$\frac{1}{2}$ "	12"	$\frac{1}{2}$ "	\$1.00
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LIBERAL DISCOUNT TO MECHANICS



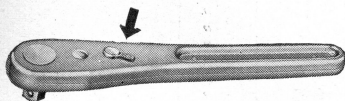
# BLACKHAWK WRENCHES

## Selected Steel--Cadmium Plated

### Handles and Attachments

#### Ratchet Wrench

For fast action in close quarters — and long leverage to jerk nuts loose or set them home. Instantly reversed by flipping lever conveniently located on top of handle. Smooth action because of eighteen teeth.



No.	Length	Square Drive	List Price
911X	10"	1/2"	\$2.75

#### Replacement Drive Lugs for Ratchets

No.	Square Drive	For Use With	List Price
T13	1/2"	Old 911X	\$0.35
T13X	3/4"	916	.70

#### Extension Bars

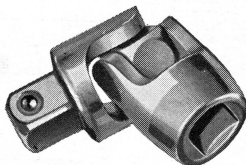


No.	Stock Dia.	Length	Square Drive	List Price
T6	5/8"	6"	1/2"	\$0.75
T10	5/8"	10"	1/2"	.90

#### Universal Joint

Should be in every mechanic's kit. These Universal Joints are sturdily made and give full 90° angle.

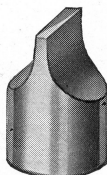
No.	Male End	Square Drive	List Price
T2	1/2" sq.	1/2" sq.	\$1.65



#### Tie Rod and Screw Driver Attachment

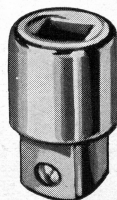
For ordinary car work, 1/2" Square Drive. Size of blade 1 5/8" x 7/8".

No.	List Price
T1.....	\$0.50



#### Adaptors

Adaptor Number	Female Opening	Used on Handles to	Male Drive	List Price
T7X	5/8"	Increase to	3/4"	\$0.90
T9X	1/2"	Increase to	3/4"	.85
T7	3/4"	Decrease to	5/8"	.90
T9	3/4"	Decrease to	1/2"	.85
*T013X	3/4"	Decrease to	1/2"	1.20
*T013XX	7/8"	Decrease to	3/4"	1.40



\*Ratchet drive adaptors—male drive on each side.

**LIBERAL DISCOUNT TO MECHANICS**

# BLACKHAWK WRENCHES

## Selected Steel-Cadmium Plated

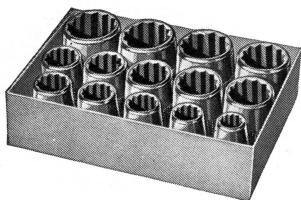
### Sockets

#### Standard Series Double Hex — 1/2" Sq. Drive



Socket No.	Socket Size	List Price	Socket No.	Socket Size	List Price
D14	7/16"	\$0.35	D26	1 1/8"	\$0.40
D16	1/2"	.35	D28	7/8"	.40
D18	9/16"	.35	D30	1 1/16"	.50
D19	1 3/32"	.35	D31	1 1/8"	.50
D20	5/8"	.35	D32	1"	.50
D21	21/32"	.35	D34	1 1/16"	.55
D22	1 1/16"	.35	D36	1 1/8"	.60
D24	3/4"	.40	D40	1 1/4"	.65
D25	25/32"	.40			

#### Double Hex Socket Set — 1/2" Sq. Drive



No. 14Z contains fourteen double hexagon (12 point) sockets packed in fibre box. One each of all Nos. from D14 to D32 — 7/16" to 1".

No.

14Z—Set in fibre box

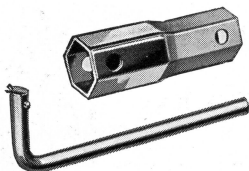
....List Price, \$5.55

#### Standard Series Sq. Sockets — 1/2" Sq. Drive



Socket No.	Socket Size	List Price	Socket No.	Socket Size	List Price
012	3/8"	\$0.35	025	2 5/32"	\$0.45
014	7/16"	.35	026	1 3/8"	.45
016	1/2"	.35	028	7/8"	.45
018	9/16"	.35	030	1 5/16"	.55
019	1 3/32"	.35	032	1"	.55
020	5/8"	.35	034	1 1/16"	.65
022	1 1/8"	.45	040	1 1/4"	.70
024	3/4"	.45			

### Spark Plug Sockets



No.	List Price
3327—For all 1 1/8" hexagon spark plugs — without handle .....	\$0.65
3329—For all 7/8" and 1" hexagon spark plugs — without handle .....	.65
3731—For all 1 1/8" and 1 1/4" hexagon spark plugs — without handle .....	.65
3750—L Handle for above sockets .....	.20

#### Square Drain Plugs — 1/2" Sq. Drive

Complete series to fit all female drain plugs on transmissions, oil pans, differentials, etc.



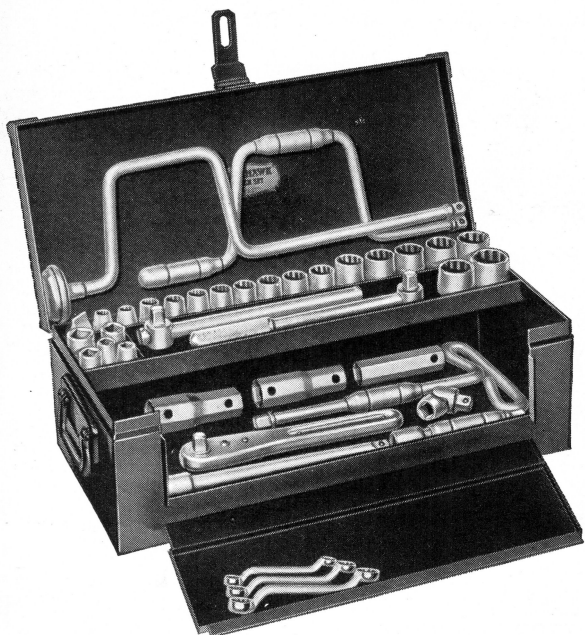
Part No.	Size Plug	List Price	Part No.	Size Plug	List Price
710	5/16" Sq.	\$0.35	718	9/16" Sq.	\$0.35
712	3/8" Sq.	.35	720	5/8" Sq.	.35
714	7/16" Sq.	.35	724	3/4" Sq.	.35
716	1/2" Sq.	.35			

LIBERAL DISCOUNT TO MECHANICS

# BLACKHAWK WRENCHES

## Selected Steel--Cadmium Plated

### No. 38CB Wrench Chest



**A** COMPLETE set of thirty-eight (38) wrenches in the  $\frac{1}{2}$ " cadmium plated series. There's a wrench in this set to handle the majority of repair jobs on all cars, trucks and other equipment.

Its low price and completeness appeal to the mechanic who needs an all around set, but cannot afford the finer chromium plated line.

All the tools are cadmium plated — a new, attractive and rust-proof finish. Contained in the standard CB case — praised by every mechanic for its compactness and portability.

Nickel name-plate with your name engraved will be furnished at a small cost of 25c. Adds a note of individuality and brands it as your own property.

#### Contents of Set:

One each Speeder No. 610, Offset Handle No. 110X, Ratchet Wrench No. 911X, Brace Handle No. 500, Tee Handle No. 3310, Extensions Nos. T6 and T10, Universal Joint No. T2, Sliding Tee Offset No. T4, Drag Link Socket No. T1, Double Hexagon Sockets from  $\frac{7}{16}$ " to  $1\frac{1}{4}$ ", Nos. D14, D16, D18, D19, D20, D21, D22, D24, D25, D26, D28, D30, D31, D32, D34, D36 and D40. Double Square Sockets from  $\frac{3}{8}$ " to  $\frac{5}{8}$ ", Nos. 012, 014, 016, 018 and 020.

Spark Plug Wrenches Nos. 3327, 3329, 3731 and Handle No. 3750.

Double Hex Box Type Wrenches,  $\frac{3}{8}$ " to  $1\frac{1}{8}$ ", Nos. 15176, 15177 and 15178.

No.

**38CB Set—Complete** .....List Price, \$33.80

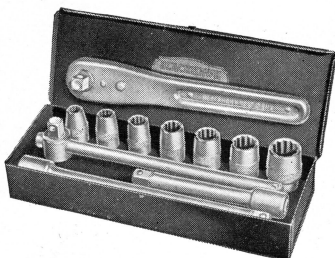
**LIBERAL DISCOUNT TO MECHANICS**

# BLACKHAWK WRENCHES

## Selected Steel--Cadmium Plated

### Wrench Sets

#### No. 11PD Set



A practical set of handles and sockets in the  $\frac{1}{2}$ " square drive series. It's reasonably priced.

#### Contents of Set:

One each Nos. 911X, T4, T6 and T10; Double Hex Sockets  $\frac{7}{16}$ " to  $\frac{7}{8}$ ", Nos. D14, D16, D18, D20, D22, D24 and D28.

No. 11PD Set—Complete ..... List Price, \$8.50

#### No. 19AD Set



A larger assortment for practically all repair jobs.  $\frac{1}{2}$ " square drive.

#### Contents of Set:

One each Nos. 500, 3310, 911X, T4, T5, T6, T10 and T2; Double Hex Sockets  $\frac{7}{16}$ " to  $\frac{7}{8}$ ", Nos. D14, D16, D18, D19, D20, D21, D22, D24, D25, D26 and D28.

No. 19AD Set—Complete ..... List Price, \$17.10

#### No. 29CD Set



Twenty-nine (29) tools that every mechanic will welcome for general service work. Packed in a convenient carrying case — take it right to the job.  $\frac{1}{2}$ " square drive.

#### Contents of Set:

One each Nos. 610, 500, 911X, T4, T6, T10, 3310, T2, 110X and T1; Double Hex Sockets  $\frac{7}{16}$ " to 1", Nos. D14, D16, D18, D19, D20, D22, D24, D25, D26, D28, D30, D31 and D32; Double Square Sockets  $\frac{3}{8}$ " to  $\frac{3}{4}$ ", Nos. 012, 014, 016, 018, 020 and 024.

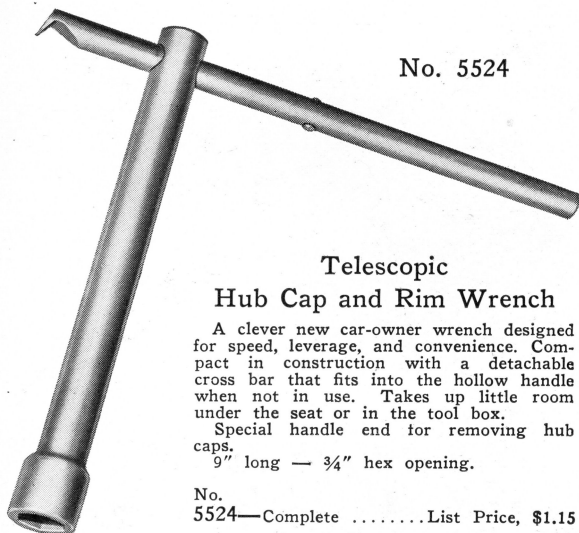
No. 29CD Set—Complete ..... List Price, \$22.80

**LIBERAL DISCOUNT TO MECHANICS**

# BLACKHAWK WRENCHES

## Selected Steel--Cadmium Plated

### Tire Service Tools



No. 5524

#### Telescopic Hub Cap and Rim Wrench

A clever new car-owner wrench designed for speed, leverage, and convenience. Compact in construction with a detachable cross bar that fits into the hollow handle when not in use. Takes up little room under the seat or in the tool box.

Special handle end for removing hub caps.

9" long —  $\frac{3}{4}$ " hex opening.

No.

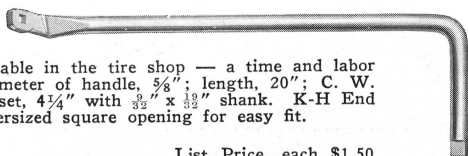
5524—Complete .....List Price, \$1.15

#### Car Owner Rim Wrenches



No.	Socket Size	Stock Dia.	Shank Length	Sweep	List Price
5220	$\frac{5}{8}$ "	$\frac{1}{2}$ "	$5\frac{3}{4}$ "	$4\frac{7}{8}$ "	\$0.50
5222	$\frac{11}{16}$ "	$\frac{1}{2}$ "	$5\frac{3}{4}$ "	$4\frac{7}{8}$ "	.50
5224	$\frac{3}{4}$ "	$\frac{1}{2}$ "	$5\frac{3}{4}$ "	$4\frac{7}{8}$ "	.50
5226	$\frac{13}{16}$ "	$\frac{1}{2}$ "	$5\frac{3}{4}$ "	$4\frac{7}{8}$ "	.50
5228	$\frac{7}{8}$ "	$\frac{1}{2}$ "	$5\frac{3}{4}$ "	$4\frac{7}{8}$ "	.50

#### Kelsey-Hayes and C. W. C. Rim Tools



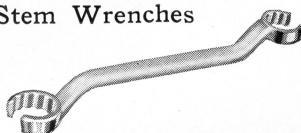
Indispensable in the tire shop — a time and labor saver. Diameter of handle,  $\frac{5}{8}$ "; length, 20"; C. W. C. End Offset,  $4\frac{1}{4}$ " with  $\frac{9}{32}$ " x  $\frac{13}{32}$ " shank. K-H End has  $\frac{3}{8}$ " oversized square opening for easy fit.

No.

5603—.....List Price, each \$1.50

#### Tire Valve Stem Wrenches

Handy double offset box-types. Slotted ends slip easily over curved stems. Thin walls for close clearance.



No.

2794—Openings  $\frac{3}{4}$ " &  $\frac{11}{16}$ " .....List Price, \$1.50

2795—Openings  $\frac{3}{4}$ " &  $\frac{7}{8}$ " .....List Price, 1.50

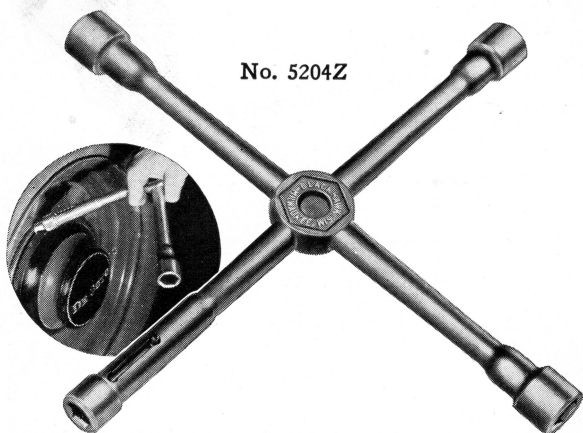
**LIBERAL DISCOUNT TO MECHANICS**



# BLACKHAWK WRENCHES

## Selected Steel--Cadmium Plated

### Tire Service Tools



#### Cross Type Rim Wrench with Hub Cap Puller

Here's a new universal cross type rim wrench that makes easy work of removing nuts on all tire changes. Extra deep sockets take all nuts even with extended bolts.

Bell shaped sockets sneak in where rim nuts are close to the hub wall.

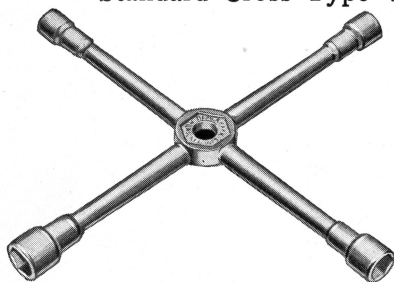
One socket has built-in spring-backed hub cap puller that slides out easily when released. When not in use plunger is out of way permitting use of sockets.

14½" overall — socket sizes ⅝", ¾", 1⅜" and 7/8" Hex.

No.

5204Z..... List Price, \$4.00

#### Standard Cross Type Wrench



No. 5204X

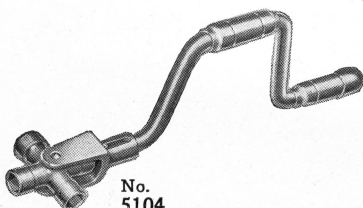
The master of all rim nut jobs. Extra deep sockets get both nuts on tire carriers. Handles any rim nut job on wood, disc, or wire wheels.

14½" overall — socket sizes ⅝", ¾", 1⅜", and 7/8" Hex.

No.

5204X..... List Price, \$3.25

#### Universal Rim Wrench



No.

5104..... List Price, \$2.75

For heavy-duty service and speed. Sockets revolve in patented head—locked securely by simple mechanism. Desired socket in place instantly.

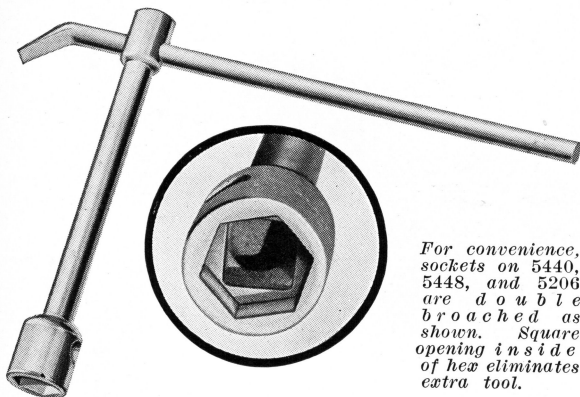
Socket sizes ⅝", 1⅜", ¾", and 7/8" Hex.

LIBERAL DISCOUNT TO MECHANICS

# BLACKHAWK WRENCHES

## Selected Steel--Cadmium Plated

### Tire Service Tools



*For convenience, sockets on 5440, 5448, and 5206 are double broached as shown. Square opening inside of hex eliminates extra tool.*

### Truck and Bus Rim Wrenches

(Illustrated Above)

No. 5448—For Ford AA Trucks, Budd-Michelin Wheels, Budd Duals, Dayton Spokesteel Wheels, change-overs, and deep dual discs.

No. 5440—Has  $\frac{7}{8}$ " Hex opening for 1933-34 Chevrolet Trucks, also 1931 and 1932 Chevrolet Trucks. Has square openings for rear wheel rim studs, and two hex openings for front and rear wheel rim nuts.

No. 5434—For all other truck and bus rim nuts and trailers with pneumatics.

No. 5401—Used as pry bar and to provide leverage to break loose those frozen nuts.

No.	Socket Sizes	Stock Dia.	Length	List Price
*5448	$\frac{13}{16}$ " Sq., $1\frac{1}{8}$ " & $1\frac{1}{2}$ " Hex	$\frac{7}{8}$ "	$14\frac{1}{2}$ "	\$3.00
*5440	$\frac{5}{8}$ " Sq., $\frac{7}{8}$ " & $1\frac{1}{4}$ " Hex	$\frac{7}{8}$ "	$14\frac{1}{2}$ "	2.60
*5434	$1\frac{1}{8}$ " & $1\frac{3}{8}$ " Hex	$\frac{7}{8}$ "	$14\frac{1}{2}$ "	2.15
5401	Pry Bar only	$\frac{3}{4}$ "	20"	1.40

\*Does not include No. 5401 Pry Bar.

### Universal Truck Rim Wrench

A rim tool that handles 90% of all truck rim nuts, including Ford and Chevrolet. A powerful tool, 23" overall. No. 5401 handle can be used for extra leverage through hole in center.

Socket sizes —  $\frac{7}{8}$ ",  $1\frac{1}{8}$ ",  $1\frac{1}{4}$ " and  $1\frac{1}{2}$ " hexagon,  $\frac{5}{8}$ " and  $\frac{13}{16}$ " square.



No. 5206

$\frac{13}{16}$ " square for Ford Trucks and Budd-Michelin Rims.  $\frac{5}{8}$ " square for 1931-32 Chevrolet Truck.

No. 5206—Without No. 5401 Pry Bar.....List Price, \$8.00

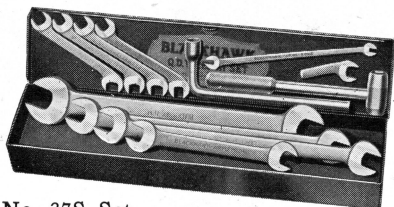
5401—Pry Bar .....List Price, 1.40

**LIBERAL DISCOUNT TO MECHANICS**

# BLACKHAWK WRENCHES

## Chrome Vanadium · Chromium Plated

### Brake Wrenches and Sets



No. 37S Set  
Including Nos. 2581 & 2583

**N**O MECHANIC can resist this fine complete set of brake tools to service every car. Fourteen wrenches of all types packed in a sturdy metal case. Take it right on the job — every tool is there, and ready to do its job. It contains one each Nos. 2534, 2537A, 2526B, 2526, 2526A, 426, 2561, 1731BR, 1034BR, 1735BR, 4014X, 2103, 2581 and 2583.

No.  
37S— Complete, in metal case.....List Price, \$34.20  
37CB— Complete, in cardboard box.....List Price, 31.45

Smaller set than above. Contains one each Nos. 2526, 2534, 2535, 2536, 2537, 2538, 2539, 2541 and 2542.

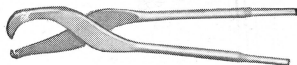
No.  
35CB— Complete, in cardboard box.....List Price, \$13.55  
35LR— Complete, in leatherette roll.....List Price, 15.05

### Steel-Draulic Brake Pliers



No.  
2581— Fits all Steel-Draulic Brakes. Over all length  
5 1/4" .....List Price, \$2.25

### Brake Spring Pliers



No.  
2583— For removing and replacing internal brake springs.  
Length 12 1/2" .....List Price, \$3.75

### For General Brake Servicing



No.	Opening in 22 1/2° End	Opening in 60° End	Length	Applica- tion	List Price
2526	5/8"	5/8"	6 1/4"	Lockheed	\$1.40
2526A	9/16"	9/16"	6 1/4"	General	1.40
2526B	1 1/16"	1 1/16"	6 1/4"	General	1.40
2537	1/2"	9/16"	6 1/4"	La Salle	1.40
2537A	7/8"	1/2"	6 1/4"	External Mechanical	1.40
2538	9/16"	1/2"	6 1/4"	La Salle	1.40

LIBERAL DISCOUNT TO MECHANICS

# BLACKHAWK WRENCHES

## Chrome Vanadium - Chromium Plated

### Brake Wrenches

For Chrysler Cars



No.	Opening	Length	Thickness	List Price
2534	$\frac{5}{8}$ "	$3\frac{1}{16}$ "	$\frac{7}{32}$ "	\$0.90

For Chevrolet



2542	$\frac{5}{8}$ " - $\frac{3}{4}$ "	$7\frac{1}{2}$ "	$\frac{7}{32}$ "	\$1.50
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For Bendix Brakes



2539	$\frac{1}{4}$ " - $\frac{1}{2}$ " - $\frac{3}{4}$ "	7"	$\frac{5}{16}$ "	\$1.80
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For Eccentric Cam on Bendix Internal



2561	$\frac{3}{16}$ " - $\frac{1}{4}$ "	9"	$\frac{7}{32}$ "	\$1.80
2561-A	$\frac{5}{16}$ " - $\frac{3}{8}$ "	9"	$\frac{7}{32}$ "	1.80

For Dodge



2535	$\frac{7}{8}$ "	9"	$\frac{3}{16}$ "	\$1.50
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For Cadillac, La Salle, Etc.

426	$\frac{3}{4}$ " - $\frac{7}{8}$ "	9"	$\frac{7}{32}$ "	\$1.05
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For Studebaker Cars



2536	$\frac{7}{8}$ "	$4\frac{7}{8}$ "	$\frac{7}{32}$ "	\$1.25
2541	$\frac{7}{8}$ "	10"	$\frac{7}{32}$ "	2.40

Specials



Special wrenches for Lockheeds, Hydraulics, Bendix, and other mechanical brakes.

1731BR	$\frac{3}{4}$ " - $\frac{7}{8}$ "	15"	$\frac{3}{8}$ "	\$3.75
1034BR	$\frac{1}{8}$ " - $1\frac{1}{16}$ "	16"	$\frac{17}{32}$ "	5.00
1735BR	1" - $1\frac{1}{8}$ "	16"	$\frac{1}{2}$ "	5.00

Ford (Cadmium Finish) Cars and Trucks



4014X	$\frac{7}{16}$ " - $\frac{1}{2}$ " Sq.	$9\frac{1}{2}$ "	...	\$1.10
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For Bendix and Steeldraulic Internal



2103	$\frac{9}{16}$ " Hex	9"	$2\frac{1}{2}$ " Offset	\$1.25
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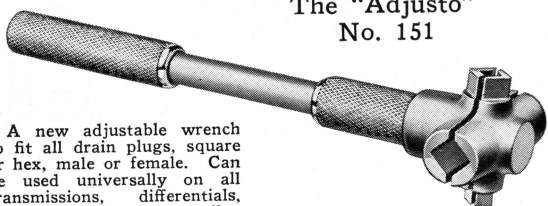
**LIBERAL DISCOUNT TO MECHANICS**

# BLACKHAWK WRENCHES

## Selected Steel--Cadmium Plated

### Lubrication Service Tools

The "Adjusto"  
No. 151

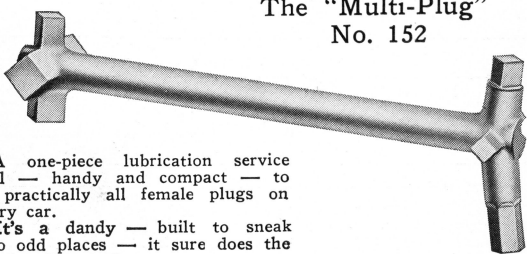


A new adjustable wrench to fit all drain plugs, square or hex, male or female. Can be used universally on all transmissions, differentials, shock absorbers, gasoline tanks, and vacuum tank drain and filler plugs. It's new and unique — jaws are adjusted by a twist of the thumb on knurled sleeve — not the handle grip as with ordinary drain plug wrenches. Jaw adjustment is not affected by pulling or twisting the grip.

Chrome vanadium steel — cadmium plated. Adjustable sockets and plugs to fit — hex male plugs  $\frac{7}{16}$ " to  $1\frac{1}{2}$ "; square male plugs,  $\frac{3}{16}$ " to  $1\frac{1}{4}$ "; square female openings,  $\frac{5}{16}$ " to 1".

No. 151..... List Price, \$3.75

The "Multi-Plug"  
No. 152



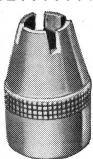
A one-piece lubrication service tool — handy and compact — to fit practically all female plugs on every car.

It's a dandy — built to sneak into odd places — it sure does the job in short order.

Length, 8". Has  $\frac{7}{16}$ " hex lug and  $\frac{11}{32}$ " square to fit both old and new Hudson-Essex clutch drain plugs.

Size of plugs —  $\frac{5}{16}$ ",  $\frac{11}{32}$ ",  $\frac{3}{8}$ ",  $\frac{7}{16}$ ",  $\frac{1}{2}$ ",  $\frac{9}{16}$ ",  $\frac{5}{8}$ " square, and  $\frac{7}{16}$ " hex.

No. 152..... List Price, \$2.00

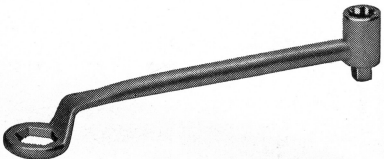


Special Alemite Socket

Makes an easy job of installing and removing Alemite fittings of all kinds. Fits standard  $\frac{1}{2}$ " square drive handles.

No. 414..... List Price, \$0.45

Ford Drain and Filler Plug Wrench



Openings:  $\frac{15}{16}$ " hex,  $\frac{9}{16}$ " double square, and  $\frac{11}{32}$ " square male plug.

No. 4213..... List Price, \$1.60

LIBERAL DISCOUNT TO MECHANICS



# BLACKHAWK WRENCHES

## Selected Steel--Cadmium Plated

### Specials For Chevies

#### Brake Adjusting Socket

Has special socket opening to adjust brakes on four cylinder Chevrolets.  $\frac{1}{2}$ " square drive. Cadmium finish.

No.

412.....List Price, each \$0.35



#### Spark Plug Wrenches

No. For 1932 Models

8932—1" opening.  $\frac{1}{2}$ " square drive. Chromium plated.....List Price, \$1.55

3329—1" opening. Pressed steel. Cadmium plated.....List Price, .65

For 1933 and 1934 Models

8926— $\frac{13}{16}$ " opening.  $\frac{1}{2}$ " square "Lock-On" drive. Chromium plated.....List Price, 1.40

3327— $\frac{13}{16}$ " opening. Pressed steel. Cadmium plated.....List Price, .65

#### Rear Axle Nut Sockets

Make easy work of removing and setting the rear axle nut — a tough job without a socket of this kind.

All the following sockets have the  $\frac{3}{4}$ " square "Lock-On" drive.

No.

D38XN—For 1932 Model Cars.  $1\frac{3}{16}$ " opening..List Price, \$1.15

D34XN—For 1931 Model Cars.  $1\frac{1}{16}$ " opening..List Price, 1.15

D46XN—For 1928-29 Trucks.  $1\frac{7}{16}$ " opening...List Price, 1.55

D48XN—For 1930 Trucks.  $1\frac{1}{2}$ " opening.....List Price, 1.55

D58XN—For 1931-32-33 Trucks.  $1\frac{13}{16}$ " opening List Price, 2.50

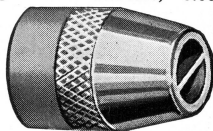
D64XN—For 1934 Trucks. 2" opening.....List Price, 3.00

#### Oil Pan Socket

Screw driver socket to fit all Chevrolet oil pans.  $\frac{1}{2}$ " square "Lock-On" drive. Chromium finish.

No.

8513.....List Price, each \$1.10



#### Steering Column Adjustment Spanner

Here's a wrench for quick adjustment on all six cylinder steering columns.

No.

2545—See page 45.....List Price, \$1.00

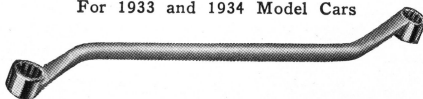
#### Water Pump Wrench

No. For All Six Cylinder Models

1232A—See page 45.....List Price, \$1.35

#### Main Bearing Wrenches

For 1933 and 1934 Model Cars

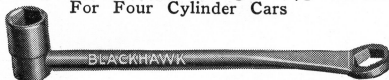


Every mechanic needs this special wrench to sneak in on the main bearing bolts. Sockets are long with thin walls to reach deeply recessed bearing caps.

No.

2676—Openings  $\frac{11}{16}$ " and  $\frac{3}{4}$ ". Length  $14\frac{1}{2}$ "..List Price, \$2.60  
For Previous Six Cylinder Models

2675—Openings  $\frac{5}{8}$ " and  $\frac{3}{4}$ ". Length  $14\frac{1}{2}$ "..List Price, 2.60  
For Four Cylinder Cars



$\frac{13}{16}$ " opening on box end and  $\frac{13}{16}$ " on the socket end. Offset just right to do the job in short order.

No.

4926—.....List Price, \$1.60

**LIBERAL DISCOUNT TO MECHANICS**

# BLACKHAWK WRENCHES

## Selected Steel--Cadmium Plated

### Special Wrenches For Fords

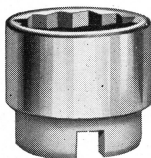
#### V8 Connecting Rod Socket



Special thin wall socket with  $\frac{9}{16}$ " double hex opening.  $\frac{1}{2}$ " Square "Lock-On" Drive. Chromium plated. Because of extreme thinness necessary the 6618F is NOT guaranteed.

No.  
6618F—.....List Price, \$0.75

#### Special Fan Pulley Socket



Fits A, B and 18. Fan pulley and starting jaw nut can be removed without dismounting radiator.  $\frac{3}{4}$ " square drive plus slotted drive for use with crank handle.  $\frac{13}{8}$ " double Hex opening. Chromium plated.

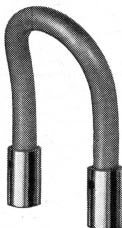
No.  
8563XN—.....List Price, \$1.25

#### Valve Grinder Attachment



No.  
4002A—.....List Price. \$0.40

#### Main Bearing Bolt Holder for V8



U-shaped handle with two "Lock-On" sockets,  $\frac{9}{16}$ " double square for holding main bearing bolts while nuts are adjusted. Because of extreme thinness necessary in sockets, they are NOT guaranteed against breakage. Chrome vanadium steel — chromium plated.

No.  
8118F—Sockets ....List Price, each \$0.85  
8564—U-Handle .....List Price, 1.10  
8565—Complete Tool with handle and two sockets .....List Price, 2.80

#### Water Pump Spanner



Used on packing nuts on Models A, AA, B and AAB.

No.  
2545.....List Price, \$1.00

#### Spark Plug Sockets

For all model Ford cars and trucks.

No.  
3731—Sizes  $\frac{15}{16}$ "-1 $\frac{1}{8}$ " Pressed Steel Socket including handle. (See page 28) .....List Price, \$0.65  
8936—Chromium plated, 1 $\frac{1}{8}$ " Double Hex,  $\frac{1}{2}$ " Square "Lock-On" Drive. (See page 14) .....List Price, 1.75  
8932—Same as above. 1" Double Hex.....List Price, 1.55

#### Truck Rear Axle Nut Socket

For rear axle nuts on models AA and AAB Trucks. 1 $\frac{13}{16}$ " Double Hex opening —  $\frac{3}{4}$ " Square "Lock-On" Drive. Chromium plated. (See page 15).

No.  
D58XN—.....List Price, \$2.50

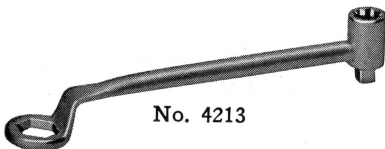
**LIBERAL DISCOUNT TO MECHANICS**

# BLACKHAWK WRENCHES

## Selected Steel--Cadmium Plated

### Specials For Fords

#### Drain and Filler Plug Wrench

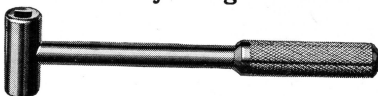


No. 4213

For motor drain plugs, transmission drain and filler plugs, and differential drain and filler plugs. Openings— $\frac{1}{8}$ " hex,  $\frac{9}{16}$ " double square and  $\frac{1}{32}$ " male square plug. Over all length 10".

No. 4213—.....List Price, \$1.60

#### Brake Adjusting Wrench



Square openings  $\frac{7}{16}$ " and  $\frac{1}{2}$ ". Used on all model Ford cars and trucks.

No. 4014X—Cadmium finish.....List Price, \$1.10

#### Main Bearing Wrenches

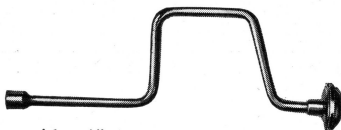


No.

4124—For models A, AA, B, AAB and 18. Has  $\frac{3}{4}$ " Hex opening. Cadmium finish.....List Price, \$1.00

4018—For front and center bearings on models T, A, AA, B and AAB.  $\frac{9}{16}$ " square opening. Cadmium finish .....List Price, .75

#### Oil Pan Wrench



Speeder type with  $\frac{1}{2}$ " hex opening. For models A, AA, B, AAB and 18.

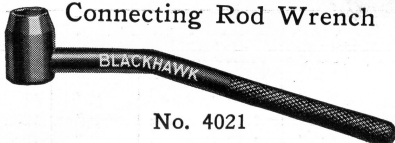
No. 4316—Cadmium finish .....List Price, \$1.00

#### Cylinder and Spark Plug Wrench

For models A, AA, B, AAB and 18. Has  $1\frac{1}{8}$ " and  $\frac{11}{16}$ " hex openings.

No. 4236—Cadmium finish .....List Price, \$0.70

#### Connecting Rod Wrench



No. 4021

For models A, AA, B and AAB. Has  $\frac{31}{32}$ " Hex opening.

No. 4021—Cadmium finish .....List Price, \$0.75

**LIBERAL DISCOUNT TO MECHANICS**

# BLACKHAWK WRENCHES

## Chrome Vanadium · Chromium Plated

### Box Type Wrenches

**N**OTE their comfortable grip — accurate balance — lightness — toughness — clean broach — slim heads to get into small quarters and over or under obstructions.

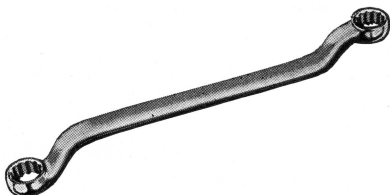
#### Double Offset — Short



No.	Socket Opening	Length	List Price	No.	Socket Opening	Length	List Price
2780	$\frac{3}{8}$ " x $\frac{7}{16}$ "	4 $\frac{1}{2}$ "	\$1.15	*2782	$\frac{9}{16}$ " x $\frac{5}{8}$ "	6"	\$1.40
2781	$\frac{1}{2}$ " x $\frac{9}{16}$ "	5 $\frac{1}{4}$ "	1.25	2784	$\frac{11}{16}$ " x $\frac{3}{4}$ "	7 $\frac{1}{2}$ "	1.95

\*For tire valve and battery work.

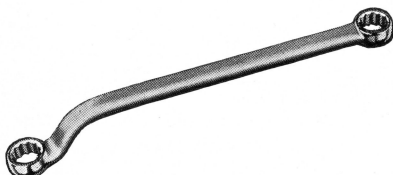
#### Double Offset — Long



2612	$\frac{3}{8}$ " x $\frac{7}{16}$ "	7 $\frac{7}{8}$ "	\$1.50	2624	$\frac{3}{4}$ " x $\frac{13}{16}$ "	12"	\$2.00
2616	$\frac{1}{2}$ " x $\frac{9}{16}$ "	9 $\frac{1}{8}$ "	1.60	2625	$\frac{3}{4}$ " x $\frac{35}{32}$ "	12 $\frac{1}{4}$ "	2.00
2619	$\frac{13}{32}$ " x $\frac{11}{16}$ "	10 $\frac{3}{16}$ "	1.75	2628	$\frac{7}{8}$ " x $\frac{15}{16}$ "	14"	2.25
2620	$\frac{5}{8}$ " x $\frac{11}{16}$ "	10 $\frac{3}{16}$ "	1.75	2630	$\frac{15}{16}$ " x $1\frac{1}{16}$ "	16 $\frac{1}{4}$ "	2.90
*2675	$\frac{5}{8}$ " x $\frac{3}{4}$ "	14 $\frac{1}{2}$ "	2.60	2632	1" x $1\frac{1}{16}$ "	16 $\frac{1}{4}$ "	3.00
*2676	$\frac{11}{16}$ " x $\frac{3}{4}$ "	14 $\frac{1}{2}$ "	2.60	2636	$1\frac{1}{8}$ " x $1\frac{1}{4}$ "	16 $\frac{1}{4}$ "	3.20

\*Special thin wall design to fit Chevrolet main bearings.  
(See page 35).

#### Single Offset — Long



Same size double hexagon socket openings at each end.

2912	$\frac{3}{8}$ "	7 $\frac{1}{8}$ "	\$1.30	2922	$\frac{11}{16}$ "	10 $\frac{5}{8}$ "	\$1.70
2914	$\frac{7}{16}$ "	8 $\frac{3}{16}$ "	1.35	2924	$\frac{3}{4}$ "	11 $\frac{5}{8}$ "	1.80
2916	$\frac{1}{2}$ "	8 $\frac{3}{4}$ "	1.40	2925	$\frac{35}{32}$ "	12 $\frac{3}{4}$ "	1.90
2918	$\frac{9}{16}$ "	9 $\frac{1}{8}$ "	1.50	2926	$\frac{13}{16}$ "	12 $\frac{3}{4}$ "	1.90
2919	$\frac{13}{32}$ "	9 $\frac{1}{2}$ "	1.60	2928	$\frac{7}{8}$ "	13 $\frac{1}{16}$ "	2.10
2920	$\frac{5}{8}$ "	9 $\frac{1}{2}$ "	1.60	2930	$\frac{15}{16}$ "	14 $\frac{3}{8}$ "	2.30

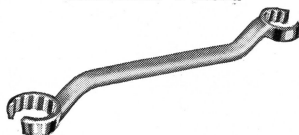
**LIBERAL DISCOUNT TO MECHANICS**

# BLACKHAWK WRENCHES

## Chrome Vanadium - Chromium Plated

### Box Type Wrenches

Tire Valve Stem Wrenches  
Cadmium Plated



Indispensable for tire and service stations. Slotted ends slip easily over curved valve stem on wire and disc wheels.

No.	Size Openings	Length	List Price
2794	$\frac{3}{4}$ " and $\frac{11}{16}$ "	$7\frac{1}{2}$ "	\$1.50
2795	$\frac{3}{4}$ " and $\frac{7}{8}$ "	$7\frac{1}{2}$ "	1.50

### Battery Wrench

Cadmium Plated

For battery terminals, starters, generators, etc.



2018	$\frac{9}{16}$ " x $\frac{5}{8}$ "	6"	\$0.80
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### Stub End Box Type Wrenches

Cadmium Plated



Part No.	Size Use Tub- Opening ular		List Price	Part No.	Size Use Tub- Opening ular		List Price
	Double Hex.	Handle No.			Double Hex.	Handle No.	
2336	$1\frac{1}{8}$ "	2304	\$3.35	2364	2"	2308	\$9.00
2340	$1\frac{1}{4}$ "	2304	3.35	2370	$2\frac{3}{16}$ "	2308	9.65
2342	$1\frac{5}{16}$ "	2304	3.35	2372	$2\frac{1}{4}$ "	2308	9.65
2344	$1\frac{3}{8}$ "	2306	5.60	2376	$2\frac{3}{8}$ "	2310	12.90
2346	$1\frac{7}{8}$ "	2306	5.60	2382	$2\frac{9}{16}$ "	2310	13.35
2348	$1\frac{1}{2}$ "	2306	6.00	2388	$2\frac{3}{4}$ "	2310	13.75
2350	$1\frac{9}{16}$ "	2306	6.00	2392	$2\frac{11}{16}$ "	2310	14.60
2352	$1\frac{5}{8}$ "	2308	7.25	2395	$3\frac{1}{8}$ "	2310	15.00
2356	$1\frac{3}{4}$ "	2308	7.60	2399	$3\frac{1}{2}$ "	2312	20.65
2358	$1\frac{13}{16}$ "	2308	7.75				

Shank diameter of each wrench is same as inside diameter of recommended tubular handle.

### Tubular Handles for Above

Cadmium Plated



Part No.	Handle Length	Assembled Over All Length	Outside Dia.	Inside Dia.	List Price
2304	18"	24"	$\frac{7}{8}$ "	$\frac{11}{16}$ "	\$2.90
2306	24"	35"	$1\frac{1}{16}$ "	$\frac{7}{8}$ "	4.60
2308	30"	41"	$1\frac{1}{4}$ "	1"	6.25
2310	36"	$52\frac{1}{2}$ "	$1\frac{7}{16}$ "	$1\frac{1}{8}$ "	8.35
2312	42"	61"	$1\frac{3}{4}$ "	$1\frac{3}{8}$ "	10.00

**LIBERAL DISCOUNT TO MECHANICS**



# BLACKHAWK-ARMSTRONG Open End --- Wrenches

## Engineer's Wrenches



Handy wherever there's a tough nut to turn on cars — trucks — tractors — farm implements — or industrial equipment. Tough as only chrome vanadium can make them.

Number	Openings, Inches	Extreme Length, Inches	Thickness Heads, Inches	List Price
1020	1/4 & 5/16	3	5/32	\$0.45
1721	5/16 & 3/8	5 1/2	13/64	.50
1021	5/16 & 3/8	5 1/2	64/1	.50
1722	5/16 & 7/16	5 1/2	13/64	.50
1723	3/8 & 1/2	5 1/2	64/1	.50
1022	5/16 & 1/2	6	7/32	.60
1023	3/8 & 1/2	6	7/32	.60
1723A	3/8 & 1/2	6	7/32	.60
1024	3/8 & 1/2	6 1/2	1/4	.70
1725	7/16 & 1/2	6 1/2	1/4	.70
1725A	7/16 & 9/16	6 1/2	1/4	.70
1725B	1/2 & 9/16	6 1/2	1/4	.70
1025	1/2 & 3/4	6 1/2	1/4	.70
1726	1/2 & 5/8	7	9/32	.85
1026	1/2 & 11/16	7	9/32	.85
1727	9/16 & 5/8	7	9/32	.85
1027	9/16 & 11/16	7	9/32	.85
1027C	9/16 & 11/16	7	9/32	.85
1728	9/16 & 3/4	8	5/16	1.05
1028	1 1/16 & 25/32	8	5/16	1.05
1028S	1 1/16 & 25/32	8	5/16	1.05
1729	5/8 & 3/4	8	5/16	1.05
1029	1 1/16 & 25/32	8	5/16	1.05
1030	1 1/16 & 7/8	8	5/16	1.05
1731	3/4 & 13/16	9 1/2	3/8	1.40
1731A	3/4 & 7/8	9 1/2	3/8	1.40
1031	25/32 & 7/8	9 1/2	3/8	1.40
1731B	1 1/32 & 7/8	9 1/2	3/8	1.40
1032	25/32 & 31/32	9 1/2	3/8	1.40
1033A	7/8 & 15/16	9 1/2	3/8	1.40
1033	7/8 & 31/32	9 1/2	3/8	1.40
1733	7/8 & 1	10 3/4	7/16	1.90
1033C	15/16 & 1	10 3/4	7/16	1.90
1034	7/8 & 1 1/16	10 3/4	7/16	1.90
1734	7/8 & 1 1/8	10 3/4	7/16	1.90
1035	31/32 & 1 1/8	10 3/4	7/16	1.90
1735	1 & 1 1/8	12 1/4	1/2	2.65
1036	1 1/32 & 1 1/4	12 1/4	1/2	2.65
1736	1 & 1 1/4	12 1/4	1/2	2.65
1037	1 1/16 & 1 1/4	12 1/4	1/2	2.65
1737	1 1/8 & 1 1/4	12 1/4	1/2	2.65

## Engineer's Wrench Sets



Here's our most popular set. It consists of six pieces selected for a wide range of work.

Complete in handsome, durable, leatherette roll.

They're thin as a coin but tough as a crow-bar.

Set contains one each Nos. 1723, 1025, 1027C, 1028S, 1731A and 1033C.

No.

26CB—In Cardboard Box .....List Price, \$6.40

26LR—In Leatherette Roll .....List Price, 7.25

**LIBERAL DISCOUNT TO MECHANICS**

# BLACKHAWK-ARMSTRONG Open End --- Wrenches

## Obstruction Wrenches



Have openings on same side. Sneak into hard-to-get-places, and do the job where others fail. Openings at 85° angle.

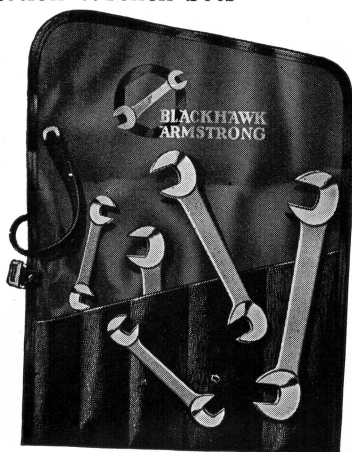
Number	Openings, Inches	Extreme Length, Inches	Thickness Heads, Inches	List Price
2721	$\frac{5}{16}$ & $\frac{3}{8}$	4 $\frac{1}{4}$	$\frac{13}{64}$	\$0.50
2021	$\frac{1}{8}$ & $\frac{1}{4}$	4 $\frac{1}{4}$	$\frac{13}{64}$	.50
2722	$\frac{5}{16}$ & $\frac{7}{16}$	4 $\frac{1}{4}$	$\frac{13}{64}$	.50
2723	$\frac{3}{8}$ & $\frac{1}{2}$	4 $\frac{1}{4}$	$\frac{13}{64}$	.50
2022	$\frac{5}{16}$ & $\frac{1}{2}$	4 $\frac{3}{4}$	$\frac{13}{64}$	.60
2023	$\frac{3}{8}$ & $\frac{1}{2}$	4 $\frac{3}{4}$	$\frac{13}{64}$	.60
2723A	$\frac{3}{8}$ & $\frac{1}{2}$	4 $\frac{3}{4}$	$\frac{13}{64}$	.60
2024	$\frac{3}{8}$ & $\frac{9}{16}$	5 $\frac{1}{2}$	$\frac{15}{64}$	.70
2725	$\frac{7}{16}$ & $\frac{1}{2}$	5 $\frac{1}{2}$	$\frac{15}{64}$	.70
2725A	$\frac{7}{16}$ & $\frac{9}{16}$	5 $\frac{1}{2}$	$\frac{15}{64}$	.70
2725B	$\frac{1}{2}$ & $\frac{9}{16}$	5 $\frac{1}{2}$	$\frac{15}{64}$	.70
2025	$\frac{1}{2}$ & $\frac{3}{4}$	5 $\frac{1}{2}$	$\frac{15}{64}$	.70
2726	$\frac{1}{2}$ & $\frac{5}{8}$	6 $\frac{1}{2}$	$\frac{17}{64}$	.85
2026	$\frac{1}{2}$ & $\frac{11}{16}$	6 $\frac{1}{2}$	$\frac{17}{64}$	.85
2727	$\frac{9}{16}$ & $\frac{5}{8}$	6 $\frac{1}{2}$	$\frac{17}{64}$	.85
2027	$\frac{19}{32}$ & $\frac{11}{16}$	6 $\frac{1}{2}$	$\frac{17}{64}$	.85
2027C	$\frac{9}{16}$ & $\frac{11}{16}$	6 $\frac{1}{2}$	$\frac{17}{64}$	.85
2728	$\frac{1}{8}$ & $\frac{3}{4}$	7 $\frac{3}{4}$	$\frac{9}{32}$	1.05
2028	$\frac{19}{32}$ & $\frac{25}{32}$	7 $\frac{3}{4}$	$\frac{9}{32}$	1.05
2028S	$\frac{5}{8}$ & $\frac{3}{4}$	7 $\frac{3}{4}$	$\frac{9}{32}$	1.05
2729	$\frac{5}{8}$ & $\frac{3}{4}$	7 $\frac{3}{4}$	$\frac{9}{32}$	1.05
2029	$\frac{11}{16}$ & $\frac{3}{4}$	7 $\frac{3}{4}$	$\frac{9}{32}$	1.05
2030	$\frac{11}{16}$ & $\frac{7}{8}$	7 $\frac{3}{4}$	$\frac{9}{32}$	1.05
2731	$\frac{3}{4}$ & $\frac{11}{16}$	9 $\frac{1}{4}$	$\frac{23}{64}$	1.40
2731A	$\frac{3}{4}$ & $\frac{7}{8}$	9 $\frac{1}{4}$	$\frac{23}{64}$	1.40
2031	$\frac{13}{16}$ & $\frac{7}{8}$	9 $\frac{1}{4}$	$\frac{23}{64}$	1.40
2731B	$\frac{13}{16}$ & $\frac{7}{8}$	9 $\frac{1}{4}$	$\frac{23}{64}$	1.40
2032	$\frac{13}{16}$ & $\frac{15}{16}$	9 $\frac{1}{4}$	$\frac{23}{64}$	1.40
2033A	$\frac{7}{8}$ & $\frac{15}{16}$	9 $\frac{1}{4}$	$\frac{23}{64}$	1.40
2033	$\frac{7}{8}$ & $\frac{3}{4}$	9 $\frac{1}{4}$	$\frac{23}{64}$	1.40

## Obstruction Wrench Sets

Mechanics will welcome this set. Present-day automobile design presents numerous obstacles to most wrenches. The wrenches in this set make for rapid and efficient work in close quarters.

Complete in a serviceable, attractive leatherette roll.

Set contains one each Nos. 2723, 2025, 2027C, 2028S and 2731A.



No.

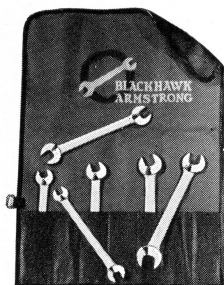
2005CB—In Cardboard Box .....List Price, \$4.50

2005LR—In Leatherette Roll .....List Price, 5.30

**LIBERAL DISCOUNT TO MECHANICS**

# BLACKHAWK-ARMSTRONG Open End --- Wrenches

## Tappet Wrenches Economy Series



A fine series of reasonably priced tappets welcomed by every mechanic. Long and thin — they slip in easily where clearance is small. Openings at 15° angle.

### Economy Tappet Set

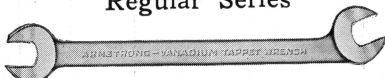
Contains two each Nos. 422, 424 and 426.

No.

22CB—In Cardboard Box...  
.....List Price, \$5.70

22LR—In Leatherette Roll  
.....List Price, 6.40

## Regular Series



Number	Openings, Inches	Extreme Length, Inches	Thickness Heads, Inches	List Price
401	3/8	8	5/32	\$0.85
401A	1/8	8	3/32	.85
402	1/2	8 1/2	5/32	.85
402A	3/4	8 1/2	3/32	.85
403	9/16	8 1/2	5/32	.85
403A	3/2	8 1/2	3/32	.85
404	5/8	8 1/2	3/16	.95
404A	3/2	8 1/2	1/16	.95
405	11/16	8 1/2	3/16	.95
406	3/4	9	7/32	1.05
406A	23/32	9	7/32	1.05
407	13/16	9	7/32	1.05
407A	7/8	9	7/32	1.05
408	15/16	9	7/32	1.20
408A	31/32	9	7/32	1.20
409	1	9	7/32	1.20
402B	Straight End 1/2 & 9/16 5/8 & 11/16 3/4 & 7/8 7/8 & 1	8 1/2	5/32	.85
402C		8 1/2	3/32	.85
404B		8 1/2	3/16	.95
404C		8 1/2	1/16	.95
406B		9	7/32	1.05
406C		9	7/32	1.05

## Tappet Wrench Sets

### Nos. 412CB and 412LR

Contain two each Nos. 402, 403, 404 and 405. These wrenches have same sized opening on each end.

No.

412CB—In Cardboard Box ..List Price, \$7.20

412LR—In Leatherette Roll ..List Price, 8.00

### Nos. 400CB and 400LR

Smaller set than above, but with more sizes. Wrenches have different sized opening on each end.

Contain one each Nos. 402B, 402C, 404B, 404C, 406B and 406C.

No.

400CB—In Cardboard Box .....List Price, \$5.70

400LR—In Leatherette Roll .....List Price, 6.40

**LIBERAL DISCOUNT TO MECHANICS**

# BLACKHAWK-ARMSTRONG Open End --- Wrenches

## Miniature Wrenches and Sets

These Miniature Wrenches take the fight out of stubborn baby nuts. Ideal for every small delicate job.

Five wrenches offer a series of ten popular sizes for fussy work on distributors, starters, generators, radios and other precision jobs.

No.	Milled Open- ing, In.	Length, In.	Thick- ness of Head, In.	List Price
H-10	$\frac{3}{16}$ & $\frac{7}{32}$	2 $\frac{1}{2}$	$\frac{3}{32}$	\$0.45
H-12	$\frac{1}{4}$ & $\frac{9}{32}$	3	$\frac{3}{32}$	.45
H-14	$\frac{5}{16}$ & $\frac{11}{32}$	3 $\frac{3}{4}$	$\frac{3}{16}$	.50
H-16	$\frac{3}{8}$ & $\frac{7}{8}$	4 $\frac{1}{8}$	$\frac{7}{32}$	.50
H-18	$\frac{13}{32}$ & $\frac{15}{32}$	4 $\frac{1}{8}$	$\frac{7}{32}$	.50

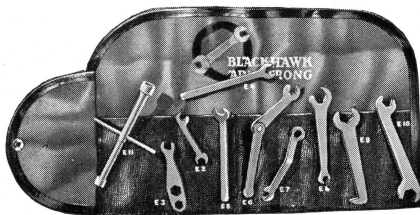


No.

20CB—One each of above. In Cardboard Box..List Price, \$2.40

20LR—One each of above. In Leatherette Roll.List Price, 2.80

## Ignition Wrenches and Sets



These tools meet with the approval of Ignition experts. All tools shown are neatly contained in the two-tone gray-green leatherette case.

No.	Size Opening Inches	Used For	Price
E-2	$\frac{1}{4} \times \frac{1}{4}$	Northeast, Splitdorf & Bosch	\$0.45
E-3	$\frac{1}{4}$ ( $\frac{11}{32}$ & $\frac{9}{32}$ )	Eiseman	.45
E-4	$\frac{5}{16}$	Remy & Wagner	.45
E-5	$\frac{5}{16}$	Remy & Wagner	.45
E-6	$\frac{5}{16}$	Ford (Third Brush)	.75
E-7	$\frac{7}{32}$ ( $\frac{1}{4}$ )	Bosch (DU4 & DU6) Autolite	.60
E-8	$\frac{7}{32}$ & $\frac{7}{16}$	Delco Remy	.60
E-9	$\frac{1}{2}$	Remy (Cam)	.60
E-10	$\frac{3}{8}$ & $\frac{13}{32}$	Autolite (Generator)	.60
E-11	$\frac{1}{4}$ & $\frac{9}{32}$	Bosch	.95

No.

18CB—One each of above. In Cardboard Box..List Price, \$5.90

18LR—One each of above. In Leatherette Roll.List Price, 6.60

**LIBERAL DISCOUNT TO MECHANICS**

# BLACKHAWK-ARMSTRONG Open End --- Wrenches

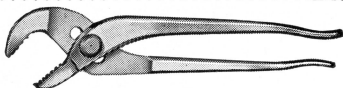
## Water Pump Wrenches



**SPANNER**—Here's a new Water Pump Spanner Wrench that makes an easy job of adjusting Water Pumps on Fords, 1933 Pontiacs and Chrysler models 75 and 80.

No.

2545.....List Price, \$1.00



**PLIERS**—These handy Universal Pliers are all-around service tools — every mechanic should have one. Handle 90% of water pump packing nuts on all cars — length 9½" — thickness of jaws ¼" — range with five position jaw adjustments, 0" to 2".

No.

12001.....List Price, \$2.00

**OPEN ENDS**—Designed especially for adjusting Water Pump packing nuts — very thin with short stroke.



No.	Milled Opening, Inches	Length, Inches	Thickness of Head, Inches	List Price
1224	¾	7	¼	\$1.35
1224A	1 ⅛	7	¼	1.35
1226	1 ⅛	7	¼	1.35
1228	7/8	7	¼	1.35
1230	1 ⅛	7	¼	1.35
1232	1	7	¼	1.35
1232A	1 ⅓	7	¼	1.35
1234	1 ⅛	7	¼	1.35
1236S	1 ⅛	7	¼	1.35
1238	1 ⅛	7	¼	1.35
1240	1 ¼	7	¼	1.35
1244	1 ⅜	7 ¾	9/32	1.50
1246	1 ⅞	7 ¾	9/32	1.50
1248	1 ½	7 ¾	9/32	1.50
1250	1 ⅞	7 ¾	9/32	1.50
1252	1 ⅝	7 ¾	9/32	1.50
1256	1 ¾	7 ¾	9/32	1.85

## "S" Wrenches



1075B	3/8 & 7/8	6 ¼	¼	\$0.80
1075A	3/4 & 1 ½	6 ¼	¼	.80
1075	1 3/8 & 1 ½	6 ¼	¼	.80
1077S	7/16 & 1 ½	7 ¼	9/32	1.00
1077B	1/2 & 1 ⅞	7 ¼	9/32	1.00
1077	1/2 & 5/8	7 ¼	9/32	1.00
1079B	9/16 & 5/8	8 ¼	5/16	1.20
1079S	9/16 & 5/8	8 ¼	5/16	1.20
1079A	9/16 & 1 ⅛	8 ¼	5/16	1.20
1079	5/8 & 1 ⅛	8 ¼	5/16	1.20
1079C	5/8 & 3/4	8 ¼	5/16	1.20
1081	1 1/8 & 2 7/8	9 ¼	3/8	1.50
1081B	3/4 & 1 ⅞	9 ¼	3/8	1.50
1081A	3/4 & 7/8	9 ¼	3/8	1.50
1083	2 3/8 & 1 ⅞	10 3/8	7/16	1.95
1083B	7/8 & 1	10 3/8	7/16	1.95
1083A	1 1/8 & 1	10 3/8	7/16	1.95
1085	1 & 1 ⅛	12	1/2	2.75
1085C	1 1/8 & 1 ¼	12	1/2	2.75
1085B	1 1/8 & 1 ¼	12	1/2	2.75

**LIBERAL DISCOUNT TO MECHANICS**

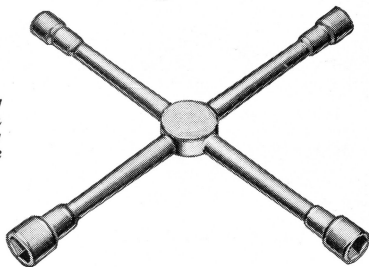
# RED CROSS WRENCHES

## Popular Priced Rim Tools

### Cross Type

Every mechanic, tire dealer, service station and filling station needs this speed four-in-one Rim Wrench. Extra deep sockets—bell shaped—tackle any nut whether on the wheel or tire carrier. They sneak in on tricky jobs—inside the hub—and take the fight out of the toughest nut.

*Here's a popularly priced speed wrench that makes easy work of all tire changes.*

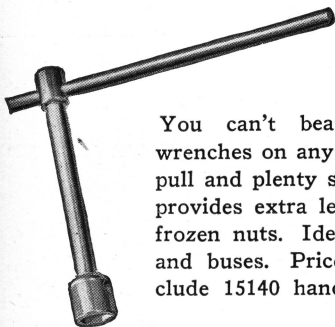


Designed for general car use—overall length 13½". Socket openings—5/8", 13/16", 3/4" and 7/8" Hex.

No.

15119—.....List Price, \$1.50

### Truck and Bus Type



You can't beat these sturdy rim wrenches on any job requiring a tough pull and plenty strength. A handle bar provides extra leverage to break loose frozen nuts. Ideal for trucks, trailers, and buses. Price below does not include 15140 handle bar.

No. 15137—For general truck, bus and trailer rim nuts. Length 14½". Socket openings—1 3/16" and 1 1/16" hex. ....List Price, \$2.00

No. 15138—For Chevrolet trucks. Has square opening for rear wheel rim studs and Hex for front and rear rim nuts. Length—14½". Openings—5/8" sq., 7/8" and 1¼" Hex.....List Price, \$2.00

No. 15139—For Ford AA trucks—Budd-Michelin, Budd Duals, Dayton Spoke-steel, changeovers and deep dual discs. Length 14½". Openings—13/16" sq., 1½" and 1½" Hex .....List Price, \$2.25

No. 15140—Handle Bar for above wrenches, 18" long, 3/4" stock diameter.....List Price, \$0.55

**LIBERAL DISCOUNT TO MECHANICS**



# HEXO Box Type

## Chrome Vanadium-Nickel Plated

THE finest quality, low priced popular wrenches made. Designed to give you handy, tough wrenches to sneak in on tricky jobs and hard-to-get-at places.

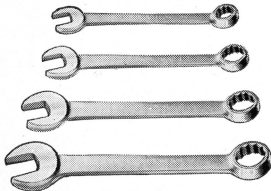
Chrome Vanadium steel makes them tough, strong and ever-wearing. Polished and finished in attractive nickel.

All double hexagon openings—every broach clean, trim and true. Made in four popular series — (1) short double offset, (2) long double offset, (3) Angl-head, and (4) Half and Half.

Every wrench fully guaranteed.

### Half & Half

Open End and box type combined in one for double-duty work on adjustments and tune-ups. Handy as a pair of pliers—each half has the same size opening.



Use either the box type or open-end half, whichever is the most convenient. Set of four wrenches packed in cardboard box.

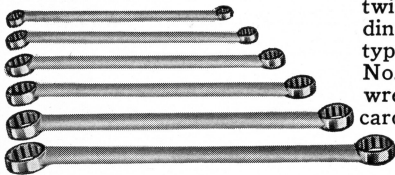
No.	Size Opening	Length	List Price
15350	$\frac{7}{16}$ "	5"	\$0.85
15351	$\frac{1}{2}$ "	$5\frac{1}{4}$ "	.90
15352	$\frac{9}{16}$ "	$5\frac{3}{4}$ "	1.00
15353	$\frac{5}{8}$ "	$6\frac{1}{8}$ "	1.13

No.  
19032—Set of Four .....List Price, \$3.85

### Angl-Head

Angl-Head box types they're called—cleverly designed wrenches for use in places with low overhead clearance.

There is a straight-line power pull on the nut with Angl- Heads — no twisting pull like ordinary offset box-types.



No. 15300 set — six wrenches packed in cardboard box.

No.	Size Openings	Length	List Price	No.	Size Openings	Length	List Price
15301	$\frac{3}{8} \times \frac{7}{8}$ "	$7\frac{3}{4}$ "	\$0.75	15304	$\frac{3}{4} \times \frac{13}{8}$ "	$11\frac{1}{4}$ "	\$1.05
15302	$\frac{1}{2} \times \frac{9}{8}$ "	$8\frac{3}{4}$ "	.80	15305	$\frac{7}{8} \times \frac{15}{8}$ "	$12\frac{3}{4}$ "	1.20
15303	$\frac{5}{8} \times \frac{11}{8}$ "	$9\frac{3}{4}$ "	.88	15306	$1 \times 1\frac{1}{8}$ "	$14\frac{1}{2}$ "	1.33

No.  
15300—Set of six .....List Price, \$6.00

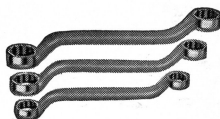
# LEVO Box Type

## Chrome Vanadium-Nickel Plated

### Short Double Offset

Handy series of three short wrenches that fit right in your jumper pocket ready for quick every-day jobs. They save plenty of time and do quick work. They are indispensable for battery, tire valves, and manifold nuts—starter, generator, water pump and other mountings.

No. 15190 set contains three wrenches packed in a cardboard box.



No.	Openings	Length	List Price
15176	$\frac{3}{8} \times \frac{7}{16}$ "	4½"	\$0.72
15177	$\frac{1}{2} \times \frac{9}{16}$ "	5¼"	.78
15178	$\frac{5}{8} \times \frac{11}{16}$ "	6"	.85

No.

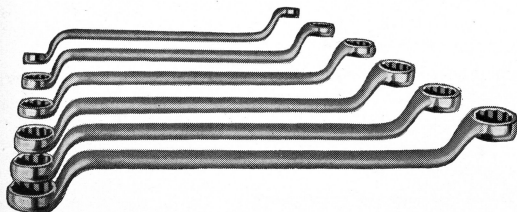
15190—Set of three.....List Price, \$2.35

### Long Double Offset

Here's a dandy series of six long box wrenches that can't be beat for every tricky job that calls for a deep offset, short bites and plenty of leverage. They're made for a tough job and stand the gaff.

Careful and accurate double hex broaches never round out—thin walls sneak into close quarters—comfortable handles make the job easy.

No. 15191 set contains six wrenches packed in a cardboard box.



No.	Openings	Length	List Price
15180	$\frac{3}{8} \times \frac{7}{16}$ "	7½"	\$0.75
15181	$\frac{1}{2} \times \frac{9}{16}$ "	8½"	.80
15182	$\frac{5}{8} \times \frac{11}{16}$ "	9¾"	.88
15183	$\frac{3}{4} \times \frac{3}{5}$ "	11⅞"	1.05
15184	$\frac{13}{16} \times \frac{7}{8}$ "	12½"	1.20
15185	$\frac{15}{16} \times 1$ "	14¼"	1.33

No.

15191—Set of six .....List Price, \$6.00

**LIBERAL DISCOUNT TO MECHANICS**

# BLACKHAWK WRENCHES

## For Every Car and Job

### Quick Reference Index

To make it easy to locate the many items that you are interested in, the wrenches in this "HANDY GUIDE" are grouped according to design. For instance—if you want a chromium plated ratchet, you will find all that are made on page six. Likewise with handles, speeders, sockets, sets, etc.

Following is a general classification of all items.

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#### Several Series of Socket Wrenches

Wherever different size square drives are shown in catalog, descriptive series names have been used. Example— $\frac{1}{2}$ " square drive is always referred to as "Standard Series"—

Extra Small Series .....	$\frac{1}{4}$ " Sq. Drive
Small Series .....	$\frac{3}{8}$ " Sq. Drive
Standard Series .....	$\frac{1}{2}$ " Sq. Drive
Heavy Duty Series .....	$\frac{3}{4}$ " Sq. Drive
Extra Heavy Duty Series .....	$\frac{7}{8}$ " Sq. Drive

$$\begin{array}{r}
 3 \overline{) 10.98} \\
 \underline{365} \\
 7.30
 \end{array}$$

### Blackhawk Guarantee:

All Blackhawk wrenches are guaranteed against defects in both workmanship and material. This also covers spreading or breaking. Free replacements will be made on all wrenches that do not stand up to this guarantee.

This guarantee is void if inspection shows that handles or sockets have been hammered or used with Stillson wrenches for extra leverage—handles or sockets have been ground thinner or changed in design—sockets were used on over or under sized nuts—undue leverage was exerted—tools are worn out from use—or any wrench has been used for purposes other than intended.



## *Blackhawk Socket Wrenches*

Save Your Knuckles,  
Improve Your Work,  
Speed Up the Job,  
Increase Your Income.

## *Blackhawk-Armstrong Open End Wrenches*

Are Longest and Strongest,  
Lighter and Brighter,  
Get in Tight Places,  
Fix Up Loose Places.

## *Buy These Wrenches*

From Your Friends—  
The Established Jobbers.

## *These Jobbers Will*

Serve You Promptly,  
Make Good Any Trouble,  
Save You Money.

## *Can You Ask More?*

---

BLACKHAWK MFG. CO.  
*Wrench Headquarters of  
America*

Milwaukee, Wis., U. S. A.

Form MG534-534-100

[U. S. A.]

*Presented by*  
CHAS. J. VETTER

*Representing*  
Automotive Equipment Company  
88 West Main Street  
UNIONTOWN PENNSYLVANIA